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The
OHIO STATE UNIVERSITY
BULLETIN

VOLUME XXV

FEBRUARY 28, 1921

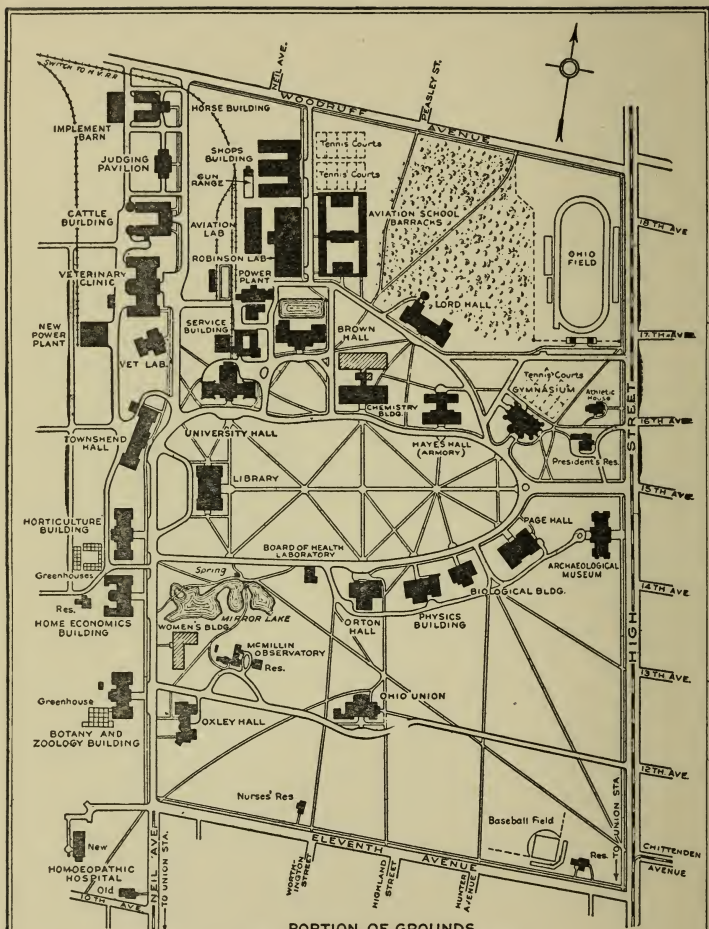
NUMBER 14

COLLEGE OF
MEDICINE

1921-1922

PUBLISHED BY THE UNIVERSITY AT COLUMBUS

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PORTION OF GROUNDS THE OHIO STATE UNIVERSITY

LEGEND

- Proposed buildings provided for by State Legislature.

Scale of Feet
100 0 100 200 300 400 500 600 700 800

1918

UNIVERSITY CALENDAR

1921

Summer Session, Monday, June 20 to Friday, August 12.
Entrance examinations, Tuesday to Saturday, 8 A. M., June 21 to 25.
Entrance examinations, Tuesday to Saturday, 8 A. M., September 6 to 10.
Physical examinations for all new students, Friday to Friday, September 16 to 23.
Registration Day—First Semester—Tuesday, September 20.
President's Annual Address, Wednesday, September 21, 11 A. M.
Intelligence tests for Freshmen in the Engineering College, Thursday and Friday, September 22 and 23, from 10 to 12 A. M.
Intelligence tests for all new students, Saturday, September 24.
Latest date for registration of candidates for a degree at the Commencement in June, 1922, October 1.
Registration Day, Short Courses in Agriculture—First Term—Tuesday, October 18.
Mid-semester reports to the Deans concerning delinquent students, Wednesday, November 9.
Thanksgiving recess begins November 23, 1 P. M., and ends November 29, 8 A. M.
Christmas recess begins Thursday, December 22, 6 P. M.

1922

Christmas recess ends Tuesday, January 3, 8 A. M.
Registration Day, Short Courses in Agriculture—Second Term—Tuesday, January 3.
Final examinations, Wednesday, January 25 to Thursday, February 2.
Farmers' Week, Monday, January 30 to Friday, February 3.
First semester ends Thursday, February 2, 6 P. M.

SECOND SEMESTER

Registration Day—Second Semester—Tuesday, February 7.
University Day, Wednesday, February 22.
Close of Second Term, Short Courses in Agriculture, Friday, March 17.
Mid-semester reports to the Deans, Wednesday, April 5.
Easter recess, Thursday noon, April 13 to Tuesday, April 18, 8 A. M.
Competitive Drill—Cadet Regiment—Saturday, May 27.
Memorial Day, Tuesday, May 30.
Final examinations, Wednesday, May 31 to Thursday, June 8.
Commencement, Tuesday, June 13.
Summer Session, Monday, June 19 to Friday, August 11.
Entrance examinations, Tuesday, June 20 to Saturday, June 24, 8 A. M.

THE FRANKLIN CO. CH.

CALENDAR FOR 1921

JANUARY.							FEBRUARY.							MARCH.							APRIL.								
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9	10	11	12	13	14	15	13	14	15	16	17	18	19	13	14	15	16	17	18	19	10	11	12	13	14	15	16		
16	17	18	19	20	21	22	20	21	22	23	24	25	26	20	21	22	23	24	25	26	17	18	19	20	21	22	23		
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CALENDAR FOR 1922

JANUARY.							FEBRUARY.							MARCH.							APRIL.						
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29	30	31					26	27	28					26	27	28	29	30	31		23	24	25	26	27	28	29
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MAY.							JUNE.							JULY.							AUGUST.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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SEPTEMBER.							OCTOBER.							NOVEMBER.							DECEMBER.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18	10	11	12	13	14	15	16
17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23
24	25	26	27	28	29	30	29	30	31					26	27	28	29	30			24	25	26	27	28	29	30
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Graduate School	College of Education
College of Agriculture	College of Engineering
College of Arts, Philosophy and Science	College of Homoeopathic Medicine
College of Commerce and Journalism	College of Law
College of Dentistry	College of Medicine
	College of Pharmacy
	College of Veterinary Medicine

The College of Medicine is located on Park Street near Buttles Avenue, four blocks north of the Union Station.

This Bulletin is devoted exclusively to the work of the College of Medicine for the academic year, 1921-1922.

For bulletins of the College of Medicine, or any information in regard to entrance, address the University Examiner, The Ohio State University, Columbus, Ohio. For information concerning the College, address the Dean of the College of Medicine, North Park Street, Columbus, Ohio.

(NOTE—The University publishes a bulletin descriptive of each college. Copies may be obtained by addressing the University Examiner, The Ohio State University, Columbus, Ohio, and stating the college in which the writer is interested.)

COLLEGE OF MEDICINE

HISTORICAL

The College of Medicine, through its predecessors, ranks as the third oldest medical college in the State and incorporates all the best medical college interests in central Ohio. The College stands upon a foundation of six medical schools with a continuity of college life covering more than eighty years. These colleges were the Medical Department of Willoughby University of Lake Erie, 1834-46; the Willoughby Medical College of Columbus, 1846-47; the Starling Medical College, 1847-1907; the Columbus Medical College, 1875-92; the Ohio Medical University, 1892-1907; and the Starling-Ohio Medical College, 1907-14.

Recognizing the great advantage that might accrue to the cause of medical education in Ohio and to the entire medical profession and citizenship through the establishment of a College of Medicine by the Ohio State University, the Trustees of the Starling-Ohio Medical College gave to the State of Ohio all its properties both real and personal for this purpose. The College of Medicine, therefore, began its career with an honorable history, with an alumni body of more than three thousand, and an established reputation and position.

PARK STREET BUILDING

This building is located on Park Street near Buttles Avenue, fronting on Goodale Park. It consists of a large four-story building and a basement, with a frontage of 94 feet and a depth of 150 feet. This building furnishes ample facilities for the numerous laboratories, teaching rooms, medical and dental dispensaries and administration offices. Two large rooms on the third floor are used for hospital purposes and are directly connected with the Protestant Hospital Building.

STATE STREET BUILDING

The main building is known as the St. Francis Hospital. It is used jointly for hospital purposes and clinical teaching, giving the advantage of bedside instruction and conference clinics under the same roof. The other building is used for an out-door dis-

pensary and a clinico-pathological laboratory. This valuable property occupies a quarter square on the corner of State and Sixth Streets and is now the property of the State.

CLINICAL FACILITIES

HOSPITALS AND THEIR RELATIONS TO THE COLLEGE

PROTESTANT HOSPITAL

By contract, the College of Medicine has full clinical control of the charity patients in the Protestant Hospital. The Hospital has a capacity of one hundred and four beds—fifty-two of which are charity beds and under the full control of the College. All members of the visiting and house staff are nominated from the Faculty by the Trustees of the University and confirmed by the Trustees of the Protestant Hospital.

This Hospital is located on Park Street and joins the College building. It was incorporated March 18, 1891, under the name of the Protestant Hospital Association by the Methodist Episcopal Church. Other denominations unite in its support and are represented on its Board of Trustees. Its first home was on Dennison Avenue where the Hospital was conducted in part until 1898, when the present fireproof building was completed. The site was donated and substantial aid given toward the construction of the building by the old Ohio Medical University. For these and other considerations the College was given a perpetual lease on the clinical privileges, which was transferred to the Ohio State University. A first-class X-Ray laboratory occupies a convenient place in the College and is open to all charity patients as well as those able to pay. The pathological and clinical laboratories are available for the benefit of hospital and dispensary patients.

ST. FRANCIS HOSPITAL

As a condition of the lease of the St. Francis Hospital building to the Sisters of the Poor of St. Francis for hospital purposes, the clinical material is under the direct control of the College of Medicine. All members of the staff are elected by the Trustees of the University. The capacity of the Hospital

is one hundred and sixty charity beds. The whole building, except one clinical amphitheatre and one surgical amphitheatre, is leased to the Sisters for hospital purposes. Owing to the central location of the Hospital a great number of emergency cases are found in the wards. These patients afford excellent clinical material. The Hospital is well equipped for treating the sick, taking care of the injured and for conducting clinical work.

A well equipped clinical-pathological laboratory is located in the adjoining building which furnishes ample facilities for tissue and other examinations, and is in charge of a well trained teacher and pathologist who gives all his time to this work. A new and well equipped X-Ray laboratory is used for diagnostic purposes. Extended improvements have been made to the building by adding sun rooms, interne rooms and an electric elevator.

CHILDREN'S HOSPITAL

This Hospital, incorporated in 1892 by a group of generous spirited citizens, has become a public institution through the fact that it is supported entirely by charitable gifts.

It has a capacity of fifty beds and accepts all types of cases except those of a contagious nature, the age limit being fifteen years.

There is conducted a free daily dispensary for general medical and surgical cases and a free daily dental clinic for hospital and dispensary cases. An eye, ear, nose, and throat dispensary is open bi-weekly and crippled children have access to a free dispensary one day each week.

For the correction of functional deformities a medical gymnasium is in daily use. A weekly psychic clinic is conducted under the auspices of the Department of Psychology of the Ohio State University, testing the mentality of abnormal children.

A social service department was established in October, 1916, whereby effective follow-up work is done by a medically trained social service worker.

A large proportion of the examining work for the Juvenile Court, the Big Sisters Association, the Oak Street Day Nursery, the Humane Society, as well as that in connection with the Child Welfare Department of the State Board of Charities, is done at the Children's Hospital.

All of the facilities of this Hospital are available for clinical purposes through an arrangement with the Ohio State University, whereby a part of the clinical staff is nominated by the Medical School subject to the confirmation of the Board of Trustees.

COLUMBUS STATE HOSPITAL

This institution, established, controlled and maintained by the State for the care of its insane, is one of the largest hospitals in Ohio. Its numerous patients exhibit all the different forms of insanity and furnish excellent opportunities for teaching psychiatry. The clinical instruction is given by the superintendent and one of the staff physicians. These teachers are specialists and the instruction is therefore most valuable.

THE FRIEND'S RESCUE HOME

This is an obstetrical hospital with fifteen beds. It furnishes about one hundred obstetrical cases during the year. The students are permitted, under the direction of competent teachers, to conduct labor cases.

An out-patient obstetrical service is maintained in connection with the City Board of Health, the District Nursing Association, and other charities. This work affords valuable experience for the students. They are brought into touch with environments and conditions such as exist in general practice.

HOSPITAL POSITIONS

There are in Columbus about twenty positions for resident physicians in various hospitals, open principally to graduates of the College of Medicine. These appointments are secured largely by competition.

DISPENSARY

The State Street Dispensary adjoins the St. Francis Hospital and is located four blocks east of the State Capitol, which marks the center of the City. It is on the State and Oak Street car line, about twenty minutes ride from the College of Medicine. The dispensary occupies a separate building, three stories high with basement. A general laboratory on the top floor suffices for both the dispensary and the hospital. Special laboratory work is referred to the laboratories in the College of Medicine.

The services in the dispensary are conducted by well trained teachers under the direction of Senior professors and include general medicine, general surgery, pediatrics, gynecology, ophthalmology, otology, rhino-laryngology, genito-urinary diseases, dermatology, syphilology, and nervous diseases.

The State Street Free Dispensary is the only general one in the City and is owned, maintained and conducted by the University through the College of Medicine. The dispensary work is prescribed throughout the Senior year. Each semester is divided into six periods of three weeks each. The dispensary services are grouped into six departments so that each student spends three weeks' time each semester in each department. The students are divided at the beginning of the Senior year into groups of from four to six each. Each group rotates through all departments of the dispensary each semester, including the dispensary at the Children's Hospital.

The dispensary is in charge of a salaried superintendent, whose duty it is to be present every day during dispensary hours. A simple system of records and record maintenance is provided with a full-time clerk-stenographer in charge. The drug-room is in charge of a Senior student, supervised by the College of Pharmacy.

The nursing service is in charge of the Department of Public Health and Sanitation, the work being done by graduate nurses in training for public health nursing, assisted by the District Nursing Association and student nurses in training. The nurses direct inquiry into social, occupational, home, and follow-up work. Close cooperation is maintained with the Associated Charities in the City.

All persons are received for treatment. New patients are first passed through an examining and assigning bureau which is conducted by the medical department, before being assigned to the proper dispensary department. The student is required to examine patients, write histories, make necessary laboratory tests, make diagnoses and suggest treatment under the direction of the teachers. Opportunities for voluntary services on the part of Junior students are also provided. The dispensary work is required of Senior students from 3:30 to 5:00 p. m. daily throughout the college year.

LABORATORIES

DISSECTING LABORATORY

The dissecting laboratory includes two large rooms, with a floor space of more than 3,500 square feet. It is equipped with modern tables, appliances for dissection and anatomical specimens, such as cross sections, skeletons and prepared organs. There are also ample facilities for the preparation and preservation of anatomical material.

PATHOLOGICAL AND HISTOLOGICAL LABORATORIES

These laboratories occupy a large, well lighted room with tables, lockers, and other necessary equipment for microscopical work. The pathologic specimens are obtained from the hospitals and from post-mortems. There are adjacent rooms for preparing and storing specimens, private offices for the professors, a departmental library, and a large recitation room in which is installed a modern projectoscope.

CLINICO-PATHOLOGICAL LABORATORY

This laboratory is located in a spacious, well lighted room equipped with tables, lockers, high power microscopes, and other apparatus necessary for teaching.

Facilities for conducting all technical laboratory experiments and tests are amply provided. Blood, metabolism, urine, stomach contents, and feces analyses are made. The course given includes instruction in serum-therapy. Autogenous vaccines are prepared for treatment of patients in the hospital wards and dispensaries.

CHEMICAL LABORATORY

This laboratory is well equipped with tables, lockers, and scientific apparatus. The room is well ventilated, electric fans being used to carry off gases.

PHYSIOLOGICAL AND PHARMACOLOGICAL LABORATORY

These combined laboratories occupy a whole floor of the main laboratory building. They are equipped with all the necessary appliances for individual work and for class demonstrations. There are thirty-four tables, each provided with lockers and a complete Harvard outfit.

BACTERIOLOGICAL LABORATORY

The laboratories of the Department of Bacteriology are located in the Veterinary Laboratory Building. There are three laboratories fitted with separate lockers to accommodate two hundred and twenty students; one room for experimental animals, one for inoculated animals, and two incubator rooms. These rooms are each equipped with the necessary incubators, hot air and steam sterilizers, autoclaves, microscopes, etc., with facilities for advanced and original work.

EXPERIMENTAL LABORATORY

This laboratory is fully equipped with apparatus for experimental work and operative surgery. The animal room is located conveniently near.

X-RAY LABORATORIES

These laboratories are installed on the first floor of the hospital buildings, easily accessible to the hospitals and dispensaries. They are equipped with the most up-to-date apparatus for diagnosis of visceral lesions and bone diseases, as well as ordinary radiographic work. An apparatus is provided for exhibition of negatives in clinical conferences.

LIBRARY FACILITIES

DEPARTMENTAL LIBRARIES

The Medical Library is located in the Medical Building on Park Street. It contains about 1,500 volumes, mainly a working collection of medical and dental reference books. The current numbers of medical and dental periodicals are on file. The main medical collection is housed in the General Library on the campus.

Each laboratory houses its own library of journals and the standard text and reference books in the subjects concerned. Over fifty periodicals are in the files including the leading journals in medicine, surgery, and the medical sciences.

The University and State Libraries are open to all students who wish to investigate any subject in general science or in medicine.

GENERAL INFORMATION

FEES AND EXPENSES

GENERAL CHARGES

All University fees must be paid at the opening of each semester as a condition of admission to classes. The registration is not complete until all fees have been paid. No student will have any privileges in the classes or laboratories until all fees and deposits are paid.

Since all fees are due and payable as a part of the student's registration, no person should come to the University for registration without money sufficient to cover all of his fees and deposits.

Matriculation Fee. Every student upon his first admission to the University is required to pay a matriculation fee of \$10.00. This fee is paid but once, and is in addition to other University fees and entitles the student to the privileges of membership in the University.

Non-Resident Fee. Every undergraduate student who is not a legal resident of the State of Ohio is required to pay a non-resident fee of \$50.00 each semester of his residence in the University in addition to other University fees. The burden of registering under proper residence is placed upon the student. If there is any possible question of his right to legal residence the matter should be brought to the attention of the Registrar and passed upon, previous to registration or the payment of fees. Any student who registers improperly under this rule shall be required to pay not only the non-resident fee but shall be assessed a penalty of \$10.00.

No person shall be considered eligible to register in the University as a resident of the State of Ohio unless he has resided in the State twelve months next preceding the date of his proposed enrollment; and no person shall be considered to have gained a residence in this State for the purpose of registering in the University while he is a student in the University.

The residence of minors shall follow that of the legal guardian.

The residence of wives shall follow that of husbands.

Aliens who have taken out their first citizenship papers and who have been residents of Ohio for twelve months next preceding the date of their enrollment in the University, shall be regarded as eligible for registration as residents of Ohio.

TUITION FEES

College of Medicine: The tuition fee is \$150.00 including laboratory deposit.

The student must pay \$75.00 at the beginning of each semester, and will not be enrolled in classes until this payment is made. No postponement or reduction of fees is made. No notes are accepted under any circumstances.

Industrial Medicine: The registration fee is \$20.00 each semester.

Public Health and Sanitation: The registration fee is \$20.00 each semester.

Public Health Nursing: The registration fee is \$20.00 each semester.

There is no laboratory deposit but students will provide their own street car fares in connection with local field work, which will average about one dollar each week.

Science Nursing: The registration fee is \$20.00 each semester, with the usual deposits for laboratory supplies.

Former students, who do not pay their fees until the third day of the first semester and the second day of the second semester, must pay one dollar additional. For each day of delinquency thereafter fifty cents is added.

MICROSCOPES

All students entering the College of Medicine are required to provide themselves with a microscope. The microscopes, completely equipped, may be secured through the storeroom at the University.

THE OHIO UNION

A fee of one dollar a semester is paid by all male students at registration. This entitles the student to all privileges of the Union consistent with the Constitution and House Rules governing it.

RETURN OF FEES

Fees are not returnable except in case of sickness and causes entirely beyond the control of the student. No portion of the fees shall be returned for voluntary withdrawal of the student or enforced withdrawal thirty days after registration. Students withdrawing under discipline forfeit all rights to the return of any portion of the fees. In no case shall more than one-half of the fee be refunded.

BREAKAGE AND INCIDENTAL CHARGES

Waste of material or destruction of apparatus in the laboratories or the destruction of college property in general, will be charged against the individual student, section, or class.

LOCKER FEE

The gymnasium is free to all students, but those desiring to use a locker are charged a fee of two dollars a semester, which includes the rental of towels.

GRADUATION FEE

A fee of five dollars, to cover expense of graduation and diploma, is required of each person receiving one of the bachelor degrees from the University, and this fee must be paid on or before the last Friday before Commencement. A like fee of ten dollars is charged each person receiving one of the higher graduate degrees.

A fee of five dollars is charged for the certificate in Industrial Medicine or for the certificate in Public Health Nursing.

OTHER EXPENSES

The cost of the required books and instruments in the Medical Course will average about \$35.00 to \$50.00 each year.

Students are required to provide themselves with instruments for their personal use in the anatomical and physiological laboratories and instruments for examining patients in the dis-

pensaries and hospitals. Senior students are required also to provide themselves with an obstetrical outfit.

A list of the necessary instruments to be purchased will be furnished by the teachers in charge of the departments.

The latest editions of textbooks on all subjects taught in the different departments can be purchased at the College of Medicine. This is for the convenience of the students. Do not purchase textbooks until the instructors have been consulted.

ROOM AND BOARD

Good room and board varies in cost with the location and environment. Comfortable living can be had for \$6.50 to \$8.00 a week. A list of boarding houses within easy access of the College, at which good board and room can be secured at reasonable prices, may be obtained at the office.

ESTIMATE OF EXPENSES

In order to furnish information, we have listed below an estimate of the average payments required by the University for the first year of the College of Medicine and have estimated the cost for room and boarding at a safe price. These two items are sometimes reduced slightly where two students occupy the same room and where boarding clubs are economically managed.

Matriculation fee.....	\$ 10 00
Tuition fee, including laboratory deposit...	150 00
Ohio Union.....	2 00
Microscope.....	
Books.....	50 00
Board—36 weeks at \$8.00 a week.....	288 00
Room rent, at \$15.00 a month.....	135 00
General expenses.....	100 00
Total.....	\$735 00

The item of *general expenses* in the above estimate is always subject to the personal habits of the individual, and varies according to the degree of economy exercised.

STUDENT ASSISTANTSHIPS

A limited number of student assistantships in the several laboratories are available for men who have had laboratory training and who have enough advanced credits to give them time to do the work required. These positions will be assigned only to men who give evidence of good training in the subject in which the assistantship lies and who can present convincing recommendations from former instructors. The compensation will depend upon the amount of time which the assistant is able to give. These assistants are not relieved from the payment of tuition or other fees.

ADMISSION

This College is open on equal terms to both sexes.

THE ENTRANCE BOARD

The admission of students into the College of Medicine is in charge of the University Entrance Board which determines the credits that shall be issued on all entrance certificates and furnishes all desired information to applicants. Correspondence relative to admission should be addressed to the *University Examiner, The Ohio State University, Columbus, Ohio.*

REQUIREMENTS FOR ADMISSION

Applicants for admission must present to the Entrance Board three official certificates:

(1) AN OHIO MEDICAL STUDENT'S CERTIFICATE. This can be obtained from the Entrance Examiner of the Ohio State Medical Board, State House, Columbus, Ohio.

The state law governing the practice of Medicine in Ohio prescribes that every person before entering a medical college must receive a Student's Medical Certificate issued by the Examiner of the State Medical Board. Regulations for securing this certificate may be obtained by writing to the Entrance Examiner of the Ohio State Medical Board, State House, Columbus, Ohio.

The certificate issued by the Medical Board has two uses: (1) It certifies that the holder has satisfied the minimum educational requirements as fixed by law for admission to medical colleges, which is equivalent to graduation from a first grade high school. It is therefore a prerequisite for matriculation in any medical college in the State of Ohio. (2) This certificate with the diploma issued by a recognized college, must be submitted to the Secretary of the State Medical Board by an applicant for admission to the examinations for a license to practice Medicine in Ohio.

(2) A CERTIFICATE OF WORK IN SECONDARY SCHOOLS. This must certify to graduation from a high school of the first grade (or from a preparatory school of equivalent rank), and must cover fifteen standard units for admission. In lieu of a certificate of graduation from a high school of the first grade, or of equivalent rank, a candidate for admission may meet the entrance requirements by passing examinations in fifteen units.

(3) A CERTIFICATE OF COLLEGE ATTAINMENTS. Showing that the applicant has obtained credit for at least two years of college work either in the College of Arts, Philosophy, and Science of the Ohio State University, or in some other college of approved standing. These credits must total at least sixty-four semester hours, exclusive of military science or physical education, and must include the following:

	FIRST YEAR	
	First Semester	Second Semester
Foreign Language (French or German preferred).....	4	4
English.....	2	2
Chemistry (general and qualitative).....	4	4
Social Science.....	3	3
Zoology (101).....	3	
Anatomy (118).....		3
SECOND YEAR		
Foreign Language (French or German preferred).....	4	4
†Psychology (101-102).....	3	3
Physics (103-104 or 105-106).....	4	4
Chemistry (organic).....	5	
Physiology (132).....		3
English.....		2

Applicants for admission to the College of Medicine who have received the B.A. or B.S. degree from an institution of recognized standing, may be admitted provided they meet the requirements, or their equivalent, in biology, English, chemistry, and physics as stated above.

†Students who have not had their preparation at the Ohio State University may offer a substitution for Psychology.

ADVANCED STANDING AND OTHER INFORMATION

Graduates in Arts or Sciences (or holders of a higher degree from an accredited college) or graduates of colleges of Pharmacy or Dentistry, who have taken either a preparatory medical course or an acceptable course in organic chemistry, physiology, or bacteriology, may be given subject-credit provided they present satisfactory credentials to the Entrance Board of having met the requirements of this College. But students given such advanced credit must in lieu thereof take such additional work as will give them no less than thirty semester hours each year in the first and second years of the medical course, except on the recommendation of the Executive Committee.

CREDIT FOR WORK DONE IN OTHER MEDICAL COLLEGES

Students from acceptable medical colleges may be admitted to advanced standing under the following rules:

1. They must present satisfactory evidence that they have met the entrance requirements of this College.
2. They must present credentials from the proper officer of the medical college attended, showing that they were registered medical students and in residence for the time for which credit is sought, and that they have met all financial obligations.
3. They must present official credentials of having completed courses of the same scope and extent as the course for which they seek credit and satisfy the head of each department of their proficiency. These credentials must be accompanied by a certificate from the Dean or Corresponding Officer supporting the above facts.

SPECIAL STUDENTS

Graduates of Medicine or persons desiring to take courses not leading to graduation may be registered as special students, and may be admitted to courses for which they have the prerequisites upon the payment of the fees required.

SCIENCE NURSING

ADMISSION

The admission of students is in charge of the University Entrance Board, which determines the credits that shall be issued on all entrance examinations and certificates, and furnishes all desired information to applicants. Correspondence relating to admission should be addressed to the University Examiner, The Ohio State University, Columbus, Ohio.

REQUIREMENTS FOR ADMISSION

To obtain full standing applicants under twenty-one years of age must have credit by examination for fifteen units or a certificate of graduation from a high school of the first grade.

Fifteen units from any first grade high school will be accepted, but it is expected that the following combination will be presented: three in English; four in foreign language; two in mathematics; one in history; one in physics; and four at large. Students who do not present these units will be required to carry courses in the University to make up the deficiency and this may delay their graduation.

PUBLIC HEALTH NURSING

ADMISSION

The admission of students is in charge of the University Entrance Board. Correspondence relating to admission should be addressed to the University Examiner, The Ohio State University, Columbus, Ohio.

REQUIREMENTS FOR ADMISSION

An applicant for admission to the Course in Public Health Nursing must satisfy the requirements for Registered Nurse in the State of Ohio (for further information apply to the State Medical Board, Columbus). Senior students in recognized training schools for nurses may be admitted upon presentation of their credentials. Students registered in other colleges of the University may elect the courses offered in the curriculum, provided they have had the prerequisites required, except the course in Public Health Nursing Field Work, for which at least two years of formal nursing training is required.

INDUSTRIAL MEDICINE

ADMISSION

The admission of students into the College of Medicine is in charge of the University Entrance Board which determines the credits that shall be issued on all entrance certificates and furnishes all desired information to applicants. Correspondence relative to admission should be addressed to the University Examiner, The Ohio State University, Columbus, Ohio. Correspondence and interviews are also solicited by the Head of the Department of Public Health and Sanitation, College of Medicine, The Ohio State University, Columbus.

REQUIREMENTS FOR ADMISSION

A graduate of any Class A medical school will be admitted upon his record to the Course in Industrial Medicine and registered as a candidate for the Certificate in Industrial Medicine. He will register in the Graduate School for such courses as are of graduate character and in the College of Medicine for the courses required in the curriculum offered in that College. Senior students in the College of Medicine may be admitted to this Course and allowed to take such work as the Executive Committee of the College of Medicine will permit them to take concurrently with the prescribed work of the Senior year, but in no case may the courses in Industrial Medicine be substituted for the prescribed work in the College of Medicine. The Course is open on equal terms to both sexes, and for the present the registration will be limited to five students.

SPECIAL STUDENTS

Special students, not candidates for the "Certificate of Graduate in Industrial Medicine," should apply to the proper departments in the University for such of the courses as they may elect to take.

DATE OF ADMISSION

To secure the Certificate within one collegiate year, students must register for the curriculum here offered not later than the beginning of the first semester and in no case later than October 1st.

PUBLIC HEALTH AND SANITATION

ADMISSION

The admission of students is in charge of the University Entrance Board. Correspondence relating to admission should be addressed to the University Examiner, The Ohio State University, Columbus, Ohio.

REQUIREMENTS FOR ADMISSION

Graduates of any Class A medical school will be admitted upon their record to the Course in Public Health and Sanitation and registered as candidates for the degree of Master of Science. Any person holding the degree of Bachelor of Arts or an equivalent degree from the Ohio State University or from any other institution of like standing, will be admitted to the Course in Public Health and Sanitation provided preliminary training has been taken in his collegiate course in each of the following subjects: Chemistry (general and qualitative), 8 hours; physics, 8 hours; zoology (elementary), 6 hours; comparative anatomy (vertebrate), 5 hours; physiology, 6 hours; and bacteriology (general and pathogenic), 8 hours.

In order to meet these requirements graduates of the Ohio State University should have had the following courses, while graduates of other universities and colleges should have had their equivalents:

- General Chemistry and Qualitative Analysis, courses 109-110
- General Physics, courses 103-104 or 105-106
- Elementary Zoology, courses 101-102
- Comparative Anatomy, courses 101-102 or 118 (5 hours)
- Physiology, courses 101-102 or 135-136
- General and Pathogenic Bacteriology, courses 107-108

Special students who do not expect to complete all the work required for the degree and who desire to fit themselves for some special field may be admitted to certain individual courses included in the curriculum on approval of the Graduate Council.

COMBINATION COURSES

THE ARTS-MEDICINE COURSE

SEVEN YEARS

This course includes the first three years of the curriculum of the College of Arts, Philosophy, and Science and the four years' curriculum of the College of Medicine. On the conditions prescribed below, the degree of Bachelor of Arts is conferred at the end of the first year of the course in Medicine, and the degree of Doctor of Medicine at the end of the fourth year of the course in Medicine.

Admission to the College of Arts, Philosophy, and Science. Required: English, 3 units; language other than English, 4 units; history, 1 unit; physics or chemistry, 1 unit; mathematics, 2 units; elective, 4 units. Total 15 units.

Residence in the College of Arts, Philosophy, and Science. The privilege of entering the Arts-Medicine Course is open only to those students who spend at least one of the three undergraduate years in residence in the College of Arts, Philosophy, and Science of the Ohio State University.

Standing. The privilege of counting the first year of Medicine as the Senior year in Arts is open only to those students who during the three years in the College of Arts, Philosophy, and Science maintain a standing of at least "A" (Average).

Group-Requirements. During the three years in Arts, the student must fulfill the group-requirements for the degree of Bachelor of Arts as described in the Bulletin of the College of Arts, Philosophy, and Science and further must include in his Arts course the following:

- (a) Physics: 8 semester hours.
- (b) Chemistry: 13 semester hours (five hours of which shall be organic chemistry).
- (c) Biology: 12 semester hours, comprising general zoology, 3 semester hours (Zoology 101); comparative anatomy

of vertebrates, 3 semester hours (Anatomy 118); and Physiology 101-102, 6 semester hours.

(d) Psychology 101-102, 6 semester hours.

(e) English, 6 semester hours.

Electives. No part of the course in Medicine may be counted as elective in the College of Arts, Philosophy, and Science, during the three undergraduate years.

Degrees. When the student has completed at least 90 hours as above, in addition to military science and physical education, he may enroll in the College of Medicine, and when he has gained credit for the first years work in the College of Medicine, he will be recommended by the faculty of the College of Arts, Philosophy, and Science for the degree of Bachelor of Arts. When he has gained credit for the second, third, and fourth years work in the College of Medicine, he will be recommended by the faculty of the College of Medicine for the degree of Doctor of Medicine.

THE SCIENCE-MEDICINE COURSE

SIX YEARS

This course includes the first two years of the curriculum of the College of Arts, Philosophy, and Science and the four years' curriculum of the College of Medicine. On the conditions prescribed below, the degree of Bachelor of Science is conferred at the end of the second year of the course in Medicine, and the degree of Doctor of Medicine at the end of the fourth year of the course in Medicine.

Admission. The same as for the Arts-Medicine Course.

Residence. The same as for the Arts-Medicine Course, substituting two years for three years.

Standing. The privilege of counting the first two years in Medicine as the last two years in the College of Arts, Philosophy, and Science is open only to those students in the Ohio State University who maintain a standing of at least "A" (Average).

CURRICULUM—FIRST YEAR

	First Semester	Second Semester
Foreign Language (French or German preferred).....	4	4
English.....	2	2
Chemistry (general and qualitative).....	4	4
Social Science.....	3	3
Zoology (101).....	3	
Anatomy (118).....		3

SECOND YEAR

Foreign Language (French or German preferred).....	4	4
†Psychology (101-102).....	3	3
Physics (103-104 or 105-106).....	4	4
Chemistry (organic).....	5	
Physiology (132).....		3
English.....		2

Degrees: When the student has completed at least 64 hours as above, in addition to military science and physical education, he may enroll in the College of Medicine, and when he has gained credit for the first two years work in the College of Medicine, he will be recommended by the faculty of the College of Arts, Philosophy, and Science for the degree of Bachelor of Science. When he has gained credit for the third and fourth years work in the College of Medicine, he will be recommended by the faculty of the College of Medicine for the degree of Doctor of Medicine.

SPECIAL ANNOUNCEMENTS

The combination courses of Science-Medicine and Arts-Medicine are open to students of colleges and universities that have no medical departments. Each college must determine, however, the time of residence required before matriculating in the College of Medicine and the required residence in the Medical College before granting the academic degree.

In the interest of higher educational ideals, the Ohio State University invites the cooperation of colleges and universities in an effort to popularize these courses.

†Students who have not had their preparation at the Ohio State University may offer a substitution for Psychology.

COLLEGE OF MEDICINE

CURRICULUM

FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
Anatomy	(121) 6	Anatomy	(122) 4
Human Anatomy		Human Anatomy	
Anatomy	(133) 6	Anatomy	(134) 4
Histology and Embryology		Histology and Embryology	
Physiology	(123) 4	Anatomy	(136) 4
Bio-Chemistry		Neurology	
Materia Medica	(131) 2	Materia Medica	(132) 3
		*Elective	3

SECOND YEAR

Anatomy	(127) 3	Pathology	(109) 7
Applied Human Anatomy		Physiology	(122) 5
Bacteriology	(141) 7	Physiology	(130) 4
Medical Bacteriology		Pharmacology	
Physiology	(121) 5	Medicine	(104) 2
Surgery	(104) 2	Physical Diagnosis	
Minor Surgery			
*Elective	2		

THIRD YEAR

Surgery	(101) 5	Surgery	(102) 5
General		General	
Ophthalmology	(101) 2	Medicine	(102) 5
Medicine	(101) 5	General and Clinical	
General and Clinical		Medicine	(126) 2
Pathology	(119) 2	Genito-Urinary Diseases	
Clinical Pathology		Medicine	(108) 2
Medicine	(106) 2	Dermatology	
Nervous Diseases		Obstetrics	(102) 2
Oto-Laryngology	(105) 2	Surgery	(106) 2
		Gynecology	
		Pathology	(120) 1
		Clinical Pathology	

*Subject to approval of Executive Committee.

FOURTH YEAR

FIRST SEMESTER		SECOND SEMESTER	
Surgery	(127) 1	Surgery	(128) 1
Conference Clinics		Conference Clinics	
Medicine	(113) 2	Medicine	(114) 2
General and Clinical		General and Clinical	
Public Health	(115) 2	Medicine	(122) 1
Preventive Medicine		Pediatrics	
Medicine	(121) 2	Obstetrics	(106) 3
Pediatrics		Medicine	(118) 1
Obstetrics	(105) 2	Psychiatry	
Surgery	(116) 1	Hospital Ward Clinics	(102) 4
Orthopedic Surgery		Medical and Surgery	
Surgery	(111) 1	Dispensary Clinics	(104) 2
Operative Surgery		Pathology	(103) or (104) 2
Hospital Ward Clinics	(101) 4	Surgical or Medical	
Medicine and Surgery		Medical Law	(101) 1
Dispensary Clinics	(103) 2	Medical Economics	1
*Elective	1		

*Subject to approval of Executive Committee.

ATTENDANCE

In any course the minimum of attendance for which credit is allowed is 85 per cent of the scheduled hours. The margin of 15 per cent is allowed to provide against serious illness or other unavoidable absence. Regular attendance upon scheduled work is required, and the Executive Committee is authorized to place on probation or recommend for dismissal any student who violates this rule without good cause. Absences just preceding or just following vacations are subject to especially rigid investigation.

EXAMINATIONS

Practical examinations in addition to the regular written examinations are held in the second semester of the Senior year in the following subjects: pathology, surgery and gynecology, medicine, obstetrics, ophthalmology, and oto-laryngology.

Before being recommended by the faculty for graduation, each Senior student must successfully pass the practical as well as the written examination.

COLLEGE OF MEDICINE

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SUBJECT	Year	First Semester				Second Semester				Grand Total Hours			
		Course No.	Didc. Hrs.	Lab. Hrs.	Total Hrs.	Credit Hrs.	Course No.	Didc. Hrs.	Lab. Hrs.	Total Hrs.	Credit Hrs.	Lab. Hrs.	Total Hrs.
Anatomy													
Human Anatomy.....	1	121	48	176	224	6	122	32	128	160	4	304	384
Applied Human Anatomy.....	2	127	32	48	80	3						48	80
Histology and Embryology.....	1	133	48	144	192	6	134	32	96	128	4	240	320
Neurology.....	1						136	32	96	128	4	96	128
Vertebrate Embryology (Elective).....	1	103	16	{ 192 208 }	{ 384 400 }	3 to 5							
Gen. Microscopic Technique (Elective).....	1	149	16	{ 144 160 }	{ 240 256 }	3 to 5							
Special Microscopic Technique (Elective).....	1						150	16	{ 240 256 }	{ 384 400 }	3 to 5		
Spec. Advanced Anatomy (Elective).....							152	16	288	304	3		
Physiology													
Physiology.....	2	121	48	160	208	5	122	48	160	208	5	326	416
Physiology—Bio-Chemistry.....	1	123	32	96	128	4						96	128
Physiology—Pharmacology.....	2						130	32	96	128	4	96	128
Physiology—Foods.....	2						139	32		32	2		32
Materia Medica													
Materia Medica.....	1	131	32		32	2	132	32	48	80	3	64	112
Bacteriology													
Medical Bacteriology.....	2	141	64	192	256	6						64	192
Immunity and Serum Therapy (Elective).....	2	117	32		32	2	118	32	{ 96 128 }	{ 144 176 }	2 to 5		
Pathogenic Protozoa (Elective).....	2	119	32		32	2	120	32		32	2		
Special Problems in Bacteriology (Elec.).....	2	125	16	{ 96 112 }	{ 144 160 }	3 to 5	126	16	{ 96 112 }	{ 144 160 }	3 to 5		

SUBJECT	Year	First Semester					Second Semester					Grand Total Hours			
		Course No.	Didc. Hrs.	Lab. Hrs.	Total Hrs.	Credit Hrs.	Course No.	Didc. Hrs.	Lab. Hrs.	Total Hrs.	Credit Hrs.	Didc. Hrs.	Lab. Hrs.	Total Hrs.	Credit Hrs.
Hospital	4	101	.....	192	192	4	102	....	192	192	4	....	384	384	8
Ward Clinics															
in Surgery and Medi-															
cine															
Medicine	2	.....	.....	.....	.....	.....	104	16	32	48	2	16	32	48	2
Physical Diagnosis.....															
Medicine, Gen. & Clini-	3	101	64	48	112	5	102	64	48	112	5	128	96	224	10
cal	3	106	32	.....	32	2	.....	....	.....	....	....	32	....	32	2
Nervous Diseases.....	3	.....	.....	.....	.....	.....	108	32	.....	32	2	32	.....	32	2
Dermatology	3	.....	.....	.....	.....	.....	112	32	.....	32	2	32	.....	32	2
Genito-Urinary Diseases	4	113	16	48	64	2	114	16	48	64	2	32	96	128	4
Medicine	4	.....	.....	.....	.....	.....	118	.....	48	48	1	....	48	48	1
Psychiatry	4	121	16	48	64	2	122	....	48	48	1	16	96	112	3
Pediatrics															
Public Health and Sanitation	4	115	32	.....	32	2	.....	.....	.....	.....	.....	32	.....	32	2
Preventive Medicine....	1	.....	.....	.....	.....	.....	112	48	.....	48	3	48	.....	48	3
Personal Hygiene															
Obstetrics	3	.....	.....	.....	.....	.....	102	16	32	48	2	16	32	48	2
Obstetrics															
Obstetrics and Conduc-	4	105	16	32	48	2	106	16	32	48	3	32	64	96	5
tions															
Medical Economics	4	.....	.....	.....	.....	.....	.....	16	.....	16	1	16	.....	16	1
Dispensary															
Dispensary Clinics.....	4	103	.....	120	120	2	104	....	120	120	2	....	240	240	4
Electives required throughout															
Course .....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16	240	256	6
												1408	3366	4798	153

SCIENCE NURSING

GENERAL INFORMATION

The Science Nursing Curriculum enables the student to accomplish in five calendar years what would ordinarily require seven academic years.

The Science Nursing Curriculum is offered by the Ohio State University in cooperation with the Protestant Hospital Training School for Nurses. The work in this curriculum parallels closely the first three years of the curriculum in Home Economics and the three-year curriculum in Nursing of the Protestant Hospital Training School for Nurses.

The graduates of this course will be eligible for admission to the State examination for the registration of nurses.

Upon the satisfactory completion of the work prescribed in the Ohio State University and the Protestant Hospital Training School for Nurses, the student will be recommended for the degree of Bachelor of Science and a diploma in Nursing.

ADMISSION

For requirements for admission, see page 29.

CURRICULUM IN SCIENCE NURSING

FIRST YEAR

At the University and the Protestant Hospital

FIRST SEMESTER				SECOND SEMESTER			
Chemistry	(105) or	(109)	4	Chemistry	(106) or	(110)	4
English		(101)	2	English		(104)	2
Paragraph Writing				Paragraph Writing			
Anatomy		(101)	3	Anatomy		(116)	3
Elementary				Digestive System			
Psychology		(101)	3	Psychology		(102)	3
Elementary				*Science Nursing		(102)	2
*Science Nursing		(101)	2	Engineering Drawing		(128)	1½
Engineering Drawing		(127)	1½	House Planning			
Mechanical Drawing				Bibliography		(102)	1
Bibliography		(103)	½	Physical Education		(132)	1
Physical Education		(131)	1				
Physical Education		(100)	1				
Hygiene							

*All students enrolled in the Science Nursing Course will report to the Protestant Hospital every Saturday morning from eight to twelve o'clock during the first and second semesters.

At the close of the second semester of the first year, the student will report immediately to the Protestant Hospital Training School for Nurses for the first summer period of eight weeks. A month's vacation will be arranged before the opening of the first semester of the second year.

FIRST SUMMER PERIOD

At the Protestant Hospital

Science Nursing	(103)	1
Drugs and Solutions		
Science Nursing	(104)	8
Hospital Ward Duty		

SECOND YEAR

At the University

FIRST SEMESTER			SECOND SEMESTER		
Chemistry	(127)	4	Agricultural Chemistry	(123)	4
Organic Chemistry			Household Chemistry		
Physiology	(101)	3	Physiology	(102)	3
Home Economics	(101)	5	Home Economics	(102)	5
Foods			Foods		
Bacteriology	(107)	4	Bacteriology	(108)	4
Physical Education	(133)	1	Physical Education	(134)	1

At the close of the second semester of the second year, the student will report immediately to the Protestant Hospital Training School for Nurses for the second summer of eight weeks. A vacation period of one month will be arranged.

SECOND SUMMER PERIOD

At the Protestant Hospital

Science Nursing	(119)	8
Hospital Ward Duty		

THIRD YEAR

At the Protestant Hospital

Science Nursing	(111)	2
Elements of Pathology		
Science Nursing	(113)	2
Medical Nursing		
Science Nursing	(115)	1
Surgical Nursing		
Science Nursing	(117)	1
Materia Medica		
Science Nursing	(123)	8
Hospital Ward Duty		

At the University

Agricultural Chemistry	(124)	4
Household Chemistry		
Sociology	(101)	3
Economics	(120)	3
The Household		
Public Health	(121)	2
Public Health Problems		
Public Speaking	(102)	2
Debating		
Science Nursing	(122)	2
Proseminary in Case Studies		

At the close of the second semester of the third year, the student will report immediately to the Protestant Hospital Training School for Nurses for the third summer period of eight weeks. A month's vacation will be arranged.

THE OHIO STATE UNIVERSITY

THIRD SUMMER PERIOD

At the Protestant Hospital

Science Nursing (141) 8
Hospital Ward Duty

FOURTH YEAR

FIRST SEMESTER

At the Protestant Hospital

Science Nursing (125) 1
Gynecological Nursing (127) 1
Science Nursing (129) 2
Orthopedic Nursing (131) 2
Science Nursing (133) 2
Obstetrical Nursing (135) 1
Nursing in Diseases of Infants and Children (137) 1
Nursing in Communicable Diseases (139) 6
Science Nursing (135) 1
Nursing in Diseases of the Eye, Ear, Nose, and Throat (137) 1
Science Nursing (139) 6
Operating Room Technic
Hospital Ward Duty

SECOND SEMESTER

At the University

Home Economics (110) 4
Dietetics (119) 4
Home Economics (106) 2
Household Management (110) 2
Public Health (112) 4
Public Health Nursing
Preventive Medicine
Sociology
Needy Families and Children

At the close of the second semester of the fourth year, the student will report immediately to the Protestant Hospital Training School for Nurses for the completion of the Course in Nursing. A vacation will be arranged.

FIFTH YEAR

The work of the fifth year will cover two semesters and will be divided between the Protestant Hospital Training School for Nurses and the University. The student will be permitted to make a selection of the field of nursing in which she wishes to specialize. The courses selected must aggregate not less than sixteen credit hours for each semester, and must include a definite amount of nursing courses to be determined by conference between the heads of the respective departments. Elective courses, divided into field and classroom work, may be arranged covering the following:

1. Public Health Nursing
2. Home Economics
3. Social Service
4. Teaching in Schools of Nursing Training

The Curriculum for Public Health Nursing is in the College of Medicine.

The Curriculum for Home Economics is in the College of Agriculture.

The Curriculum for Social Service is in the College of Commerce and Journalism.

The Curriculum for Teaching in Schools of Nursing Training is in the College of Education.

For fuller description of these curricula, see the bulletins of the respective colleges.

Degree. Upon the satisfactory completion of the work described above, the student will be granted the degree of Bachelor of Science and a diploma in Nursing, and for the satisfactory completion of any of the curricula elected in the fifth year, the respective certificate, diploma, or other form of recognition regularly granted therefor.

PUBLIC HEALTH NURSING

GENERAL INFORMATION

The principal object of the course is to supplement the training received by women in recognized training schools for nurses, in order to further prepare them to take up the work of public health nursing in cities and rural communities.

Preliminary training for this service is as essential to a full understanding of the manifold problems, as it is for any other of the applied sciences. Opportunities for the first-hand study of public health nursing work are offered students in this course. The files, records, and reports in the office of the State Supervising Nurse and the Division of Hygiene of the State Department of Health afford information where the student may study the public health nursing work in any section or locality in the State of Ohio.

In addition, close affiliation with local nursing and social service organizations in the City of Columbus affords an opportunity for the student to observe the actual conduct of the daily work of these organizations. Such organizations as the Instructive District Nursing Association, the Ohio Public Health Association, the Medical Inspection Department of the Board of Education, the Juvenile Court, the Bureau of Juvenile Research, the Associated Charities, and the hospitals and dispensary of the Medical College of the University, all in the City of Columbus, indicate the scope of field work available for the student.

ADMISSION

For requirements for admission, see page 29.

CURRICULUM IN PUBLIC HEALTH NURSING

FIRST SEMESTER			SECOND SEMESTER		
*English	(101)	2	Public Health	(110)	2
*Sociology	(101)	3	Preventive Medicine		
Principles of Sociology			Public Health	(118)	2
Public Health	(105)	2	Seminary in Public Health		
Principles of Public Health			Nursing		
Nursing			Public Health.....	(106)	2
Public Health	(121)	2	Principles of Public Health		
Public Health Problems			Nursing		
Public Health	(107)	7	Public Health	(108)	7
Public Health Nursing			Public Health Nursing		
Field Work			Field Work		
			*Home Economics	(125)	3
			Survey of Home Economics		

*Students who have completed one or more of these courses will be permitted to elect an equal amount of other work, subject to the approval of the Executive Committee.

RESIDENCE REQUIREMENT

A residence of one year wholly devoted to this work is required.

CERTIFICATE

A certificate in Public Health Nursing will be issued by the University to each graduate nurse who completes satisfactorily the full curriculum.

EXAMINATION

Each student is required to pass a final examination upon all work included in the curriculum of study.

INDUSTRIAL MEDICINE

The course in Industrial Medicine is offered under the administration of the Department of Public Health and Sanitation, the College of Medicine, and the Ohio State University, with the cooperation of the Departments of Economics, Education, English, Physiology, Psychology, Sociology, and Surgery.

GENERAL INFORMATION

The principal object of this course is to prepare graduates in medicine, both young women and men, to become medical directors and supervisors in industrial establishments. The surveillance of the health of employees in factory, mercantile, or clerical work is an economic necessity. It requires physicians with a special knowledge of industrial conditions and social relations. The various courses given in this curriculum have been carefully selected in order to prepare physicians to meet these demands. Stress is laid upon the fundamentals of hygiene and sanitation as they apply to industry. The person thus trained is therefore of greatest value to employers and employees in helping to maintain stable labor conditions and regularity of employment by preventing disease and by guiding the economic placement of physically or mentally handicapped workers as well as the speedy return to industry of those suffering from various forms of temporary disablements. To this end, lectures, demonstrations, factory visits, and other methods of instruction are arranged.

The student in the course of Industrial Medicine will receive graduate credit for those courses which are recognized as graduate courses by the Graduate School of the Ohio State University. Not enough work of purely graduate character is stipulated, however, to secure the Master's degree in the time allotted, nor is a thesis required, so that a "Certificate of Graduate in Industrial Medicine" is the recognition for the satisfactory completion of this program.

Senior students in the College of Medicine may register for this course with the permission of the Executive Committee of the College. A minimum of thirteen hours work each semester

for one collegiate year is required to obtain the Certificate in one year's time. Physicians registered in this course are encouraged to form industrial relations with establishments in or near Columbus for practical experience. While a preliminary hospital internship would be advisable, supervised work in establishments offers an industrial internship. It will be noted that practically all of the classroom work of this course comes in the morning hours which leaves the remainder of the day for practical work in industrial medical services in local establishments.

ADMISSION

For requirements for admission, see page 30.

CURRICULUM IN INDUSTRIAL MEDICINE

FIRST SEMESTER		SECOND SEMESTER	
Public Health	(205) 2	Public Health	(202) 3 to 5
Public Health Problems and Administration		Industrial Hygiene	
Public Speaking	(101) 2	Surgery	(118) 2 to 5
Surgery	(117) 2 to 5	Industrial Surgery	
Industrial Surgery		Psychology	(127) 2
Economics	(177) 3	Industrial Psychology	
Principles of Statistics		Sociology	(102) 3
Psychology	(157) 1	Principles of Sociology	
Abnormal Psychology		Electives	3
Sociology	(101) 3	(In cooperating departments)	
Principles of Sociology			
Physiology	(139) 2		
Evaluation of Diets			

Residence required. A residence of one year devoted to this work is required.

Examination. Each candidate for the Certificate is required to pass the regular examinations and to complete all work included in each of the courses of study prescribed.

Certificate. A certificate of Graduate in Industrial Medicine will be issued by the University for the successful completion of the requirements of this curriculum.

Graduation Fee. A fee of five dollars, to cover expense of graduation, is required of each person receiving a "Certificate of Graduate in Industrial Medicine" from the University. This fee must be paid to the Bursar on or before the last Friday before Commencement. A fee of ten dollars is charged each person who completes enough work to receive the degree of Master of Science or any of the higher graduate degrees.

PUBLIC HEALTH AND SANITATION

GENERAL INFORMATION

This course in Public Health is offered under the administration of the Graduate School of the Ohio State University with the cooperation of the Ohio State Department of Health.

The principal object of this course is to prepare young men and women for public health work in Ohio and elsewhere; to fit them to occupy administrative and executive positions as health officers, members of boards of health, secretaries, agents, or inspectors of health organizations, either official or voluntary. The course is planned to provide the scientific groundwork of sanitary knowledge, which underlies efficient health administration. To this end, lectures, laboratory work and other methods of instruction are arranged. Special lectures from national, state, and local health agencies will serve to bring before the student some of the current health problems in concrete form. The subjects embraced in the courses of study have been selected to cover a wide range, including medical, biological, hygienic, social and engineering sciences, together with practical health administration.

Exceptional opportunities for the first-hand study of the practical applications of the arts of public health work are offered to students in this course. The offices of the State Department of Health, a distance of ten minutes' walk, afford a mine of information, where the student may observe the various elements of strength and weakness in the administration of the public health work in any section or locality in the State of Ohio.

The City of Columbus presents a growing community where the public health problems are constantly increasing in number and complexity. The various district and city boards of health in the vicinity of Columbus make it possible for the student to observe the relatively simpler problems of small communities and the methods which are adopted to solve them. In addition to the official health agencies, there are numerous voluntary health organizations in Columbus. The function, purpose, methods of work, and results achieved may be studied by the student at close range.

ADMISSION

For requirements for admission, see page 31.

CURRICULUM IN PUBLIC HEALTH AND SANITATION

FIRST SEMESTER			SECOND SEMESTER		
Public Health	(201)	3	Public Health	(202)	3
Personal Hygiene			Industrial Hygiene		
Public Health	(205)	2	Public Health	(204)	2
Public Health Administration and Public Health Problems			Preventive Medicine		
Public Health	(207)	2	Public Health	(208)	2
Demography			Social Service and Public Health Nursing		
Public Health	(209)	3	Public Health	(210)	3
Communicable Diseases			Communicable Diseases		
Public Health	(211)	3	Public Health	(212)	3
Public Health Engineering			Public Health Engineering		
Public Health	(213)	3	Public Health	(214)	3
Public Health Laboratory and Inspection Methods			Public Health Laboratory and Inspection Methods		
			Public Health	(216)	1
			Seminary and Thesis		

Residence Requirement. A residence of one year wholly devoted to this work is required.

Date of Admission to Candidacy. A student must be admitted to candidacy not later than January 15 of the year in which the degree is sought.

Examination. Each candidate is required to pass a final examination upon all work included in his course of study. This examination is oral, but a supplementary written examination may be given at the option of the committee in charge of the course.

Thesis. A satisfactory thesis is required. The subject of the thesis, together with the written approval of the professor directing the work, must be filed with the Secretary of the Graduate Council not later than December 15 of the academic year in which the degree is sought. The completed manuscript ready for typewriting shall be submitted for correction and approval not later than 2 p. m. on the third Thursday before Commencement. The detail specifications for the typewriting and binding of the thesis may be obtained at the Editor's office. The thesis so prepared shall be presented for acceptance to the professor who has directed the work, before 4 p. m. on the Thursday preceding Commencement. If the thesis is then approved the student shall deposit it in duplicate with the University Editor not later than noon of the Friday before Commencement, and shall pay to the Editor a fee covering the cost of binding the same.

Degree. On the completion of the requirements of the curriculum in Public Health and Sanitation the degree, Master of Science will be conferred.

DEPARTMENTS OF INSTRUCTION

ANATOMY

- Embryology
- Gross Anatomy
- Histology
- Neurology
- Electives

PHYSIOLOGY

- Physiology—General and Special
- Chemical Physiology
- Pharmacology
- Electives

BACTERIOLOGY

- Medical Bacteriology
- Electives

PATHOLOGY

- Pathology—General and Special
- Clinical Pathology
- Electives

MATERIA MEDICA

- Materia Medica—General and Special
- Electives

PUBLIC HEALTH AND SANITATION

- Public Health and Sanitation—General and Special
- Industrial Medicine
- Preventive Medicine
- Public Health Nursing
- Science Nursing
- Electives

MEDICINE

- Dermatology
- General and Clinical Medicine
- Nervous and Mental Diseases
- Genito-Urinary Diseases
- Pediatrics
- Therapeutics

SURGERY

- Surgery—General and Clinical
- Surgery—Genito-Urinary
- Orthopedics
- Gynecology

SURGICAL SPECIALTIES

- Ophthalmology
- Otology, Rhino-Laryngology

OBSTETRICS

- Obstetrics

DEPARTMENTS OF INSTRUCTION

AGRICULTURAL CHEMISTRY

Office, 203 Townshend Hall

PROFESSORS VIVIAN AND LYMAN,
ASSISTANT PROFESSOR PHILLIPS

123-124. Household Chemistry. Four credit hours. The year. Agricultural Chemistry 123, second year, second semester; Agricultural Chemistry 124, third year, second semester—Science Nursing. Prerequisite, Chemistry 106 or 110. Mr. Lyman, Mr. Phillips.

Lectures on household chemistry. Laboratory work consists of a brief introduction to quantitative analysis, followed by the analysis of foods and other materials of household interest.

ANATOMY

Office, 105 Biological Building

PROFESSOR LANDACRE, ASSISTANT PROFESSOR BUCK,
MR. KNOUFF, MR. BAKER

101. Comparative Anatomy of the Vertebrates. Three to five credit hours. First semester. One recitation and five to eight laboratory hours each week. Not open to Freshmen. Science Nursing, first year. Mr. Baker.

Fishes, amphibians and reptiles.

103. Vertebrate Embryology. Three to five credit hours. First semester. One lecture or recitation and five to eight laboratory hours each week. Elective. Not open to Freshmen. Dr. Landacre.

Karokinesis and the early development of fishes, amphibians and reptiles.

116. The Digestive System. Three credit hours. Second semester. One lecture and four laboratory hours each week. Elective for Juniors and Seniors. Required, Science Nursing,

first year. Prerequisite, one year's work in biological science. Mr. Baker.

A study of the gross and microscopic structure of the digestive system and associated organs in one of the higher mammals and in man.

121. Human Anatomy. Six credit hours. First semester. Three lectures or recitations and eleven laboratory hours each week. Forty-eight didactic hours, 176 laboratory hours; total 224 hours. Medicine, first year. Dr. Buck and assistants.

Osteology, arthrology and splanchnology.

122. Human Anatomy. Four credit hours. Second semester. Two lectures or recitations and eight laboratory hours each week. Thirty-two didactic hours, 128 laboratory hours; total 160 hours. Medicine, first year. Dr. Buck and assistants.

Myology, angiology, syndesmology, and peripheral nervous system.

127. Applied Human Anatomy. Three to five credit hours. First semester. Two recitations and three laboratory hours each week or three recitations and six laboratory hours each week. Thirty-two or forty-eight didactic hours and forty-eight or ninety-six laboratory hours; total 80 or 144 hours. Medicine, second year. Three credit hours required, two additional hours elective. Prerequisite, Anatomy 121-122. Dr. Buck.

The application of gross anatomy to surgery, obstetrics and the surgical specialties.

133. Histology and Embryology. Six credit hours. First semester. Three lectures or recitations and nine laboratory hours each week. An additional hour each week is devoted to the reports of original papers by instructors and students. Forty-eight didactic hours, 144 laboratory hours; total 192 hours. Medicine, first year. Dr. Landacre, Mr. Baker, Mr. Knouff.

The histogenesis and histology of the tissues; the histology and embryology of the circulatory, digestive, respiratory, and muscular systems including the early stages of the mammalian embryos.

134. Histology and Embryology. Four credit hours. Second semester. Two recitations or lectures and six laboratory hours

each week. An additional hour each week is devoted to the reports of original papers by instructors and students. Thirty-two didactic hours, 96 laboratory hours; total 128 hours. Medicine, first year. Dr. Landacre, Mr. Baker, Mr. Knouff.

The histology and embryology of the excretory and reproductive systems with a review of the whole subject of organogenesis.

136. Neurology. Four credit hours. Second semester. Two lectures or recitations and six laboratory hours each week. Thirty-two didactic hours, 96 laboratory hours; total 128 hours. Medicine, first year. Dr. Landacre, Dr. Buck, Mr. Baker, Mr. Knouff.

The gross and microscopic structures of the brain and spinal cord including those phases of the embryology of the central nervous system not covered in Anatomy 133-134.

149. General Microscopic Technique. Three to five credit hours. Either semester. One lecture or conference and five to eight laboratory hours each week. Elective. Prerequisite, one year's work in biology. Class limited to fifteen. Mr. Knouff.

The preparation and study of tissues and organs by the ordinary technical methods.

150. Special Microscopic Technique. Three to five credit hours. Second semester. One lecture or conference and five to eight laboratory hours each week. Elective. Prerequisite, Anatomy 149. Class limited to fifteen. Mr. Knouff.

The preparation and study of tissues by the less common and more difficult kinds of technique.

152. Special Advanced Anatomy. Three credit hours. Second semester. One conference and six laboratory hours each week. Hours to be arranged. Elective. Prerequisite, Anatomy 127 or its equivalent. Dr. Buck.

Students will select or have assigned to them special regions of the body for more extended study.

For graduate courses in this department see the Bulletin of the Graduate School.

BACTERIOLOGY

Office, 202 Veterinary Laboratory Building

PROFESSORS MORREY AND STARIN, ASSISTANT PROFESSOR
MASTERS, MR. OCKERBLAD, MR. WATSON

107. General Bacteriology. Four or five credit hours. First semester. Science Nursing, second year. Dr. Morrey, Mrs. Masters, and department assistants.

This course is a prerequisite to all the elective courses in the department and is designed to prepare for special work. The lectures consider the botanical relationship of bacteria, their morphology, classification, effect of physical and chemical environment, action on food material, etc. The laboratory work includes preparation of the ordinary culture media and making of cultures on these media, staining methods, and some typical bio-chemical actions.

108. Pathogenic Bacteria. Two to five credit hours. Second semester. Science Nursing, second year. Prerequisite, Bacteriology 107. Dr. Morrey and Mrs. Masters.

A study of the more important bacteria producing disease in man, including cultural and staining properties, methods of diagnosis, and animal inoculation; also, in the lectures, ways of transmission and methods of protection against infectious disease; sanitation and the theories of immunity.

141. Medical Bacteriology. Seven credit hours. First semester. Three lectures or quizzes and nine laboratory hours each week. Forty-eight didactic hours, 192 laboratory hours; total 240 hours. Medicine, second year. Dr. Morrey, Mr. Starin.

Morphology and physiology of bacteria in general. Practice on non-pathogenic bacteria to acquire facility in the preparation of culture media, staining and study of bio-chemical reactions. Detailed study of pathogenic bacteria with respect to morphology, staining and cultural characteristics and serum reactions. Bacteriological methods of diagnosis and of treatment.

117-118. Immunity and Serum Therapy. Two credit hours. first semester. Two to five credit hours, second semester. Elective. Prerequisite, Bacteriology 107 and 108 or equivalents. Mr. Starin.

Preparation of toxins, antitoxins, and vaccines and immune serums.

119-120. **Pathogenic Protozoa.** Two credit hours. The year. Elective. Prerequisite, Bacteriology 107 and 108 or equivalents. Mr. Starin.

125-126. **Special Problems in Bacteriology.** Three to five credit hours. The year. Conferences, library and laboratory work. Elective. Prerequisite, one year's work in bacteriology. Dr. Morrey, Mr. Starin.

For description of graduate courses in this department see the Bulletin of the Graduate School.

BIBLIOGRAPHY

Office, The Library

MISS JONES, MR. REEDER

102. **The Library and the School.** One credit hour. Second semester. Science Nursing, first year. Miss Jones.

Lectures, readings, and problems on the use of books, with special reference to methods of teaching secondary school students how to make use of a library. Such practice work in technical library methods as will enable a teacher to take charge of a collection of books in a school building.

103. **Agricultural Bibliography.** One-half credit hour. First semester. Science Nursing, first year. Miss Jones, Mr. Reeder.

This course consists of lectures and problems on the use of reference books, indexes, catalogues and the publications of the United States Department of Agriculture and of the state experiment stations. It also includes the making of a short bibliography.

CHEMISTRY

Office, 100 Chemistry Building

PROFESSORS McPHERSON AND EVANS, AND DEPARTMENT ASSISTANTS

105. **Elementary Chemistry.** Four credit hours. First semester. One lecture, one quiz, and six laboratory hours each week. No prerequisite. Mr. Evans and department assistants.

An introductory course in the chemistry of the non-metals arranged for students who have not offered chemistry as a unit for admission to the University. This course is to be followed by Chemistry 106 in the second semester.

106. Elementary Chemistry and Qualitative Analysis. Four credit hours. Second semester. One lecture, one quiz, and six laboratory hours each week. Prerequisite, Chemistry 105. Mr. Evans and department assistants.

An introductory course in the chemistry of the metals, the laboratory work constituting an elementary course in qualitative analysis.

109. General Chemistry. Four credit hours. First semester. One lecture, one quiz, and six laboratory hours each week. Prerequisite, one unit of chemistry offered for admission to the University. Mr. Evans and department assistants.

A general course in the chemistry of the non-metals arranged for students who have had a satisfactory course in chemistry in the secondary schools. This course is to be followed by Chemistry 110 in the second semester.

110. General Chemistry and Qualitative Analysis. Four credit hours. Second semester. One lecture, one quiz, and six laboratory hours each week. Prerequisite, Chemistry 109. Mr. Evans and department assistants.

A general course in the chemistry of the metals, the laboratory work constituting an introductory course in qualitative analysis.

127. Organic Chemistry. (Science Nursing). Four credit hours. First semester. Three lectures and one quiz each week. Prerequisite, Chemistry 106 or 110. Mr. McPherson.

This is an elementary course in organic chemistry arranged with special reference to the needs of students in Science Nursing, and in related subjects.

DISPENSARY CLINICS

103-104. Dispensary Clinics. Two credit hours. The year. Fourth year, Medicine. Medicine, Pediatrics, Dermatology, Nervous Diseases, Genito-Urinary Diseases, Surgery, Gynecology, Eye, Ear, Nose, and Throat.

Medicine: Dr. Gordon, Dr. Hayhurst, Dr. Hatfield, Dr. Leist, Dr. Sheetz, Dr. Peinert, Dr. Minthorn, Dr. Weihrauch.

Pediatrics: Dr. Horton, Dr. Ramsey, Dr. Edelman.

Dermatology: Dr. C. J. Shepard.

Nervous Diseases: Dr. Wagenhals.

Genito-Urinary Diseases: Dr. Baldwin, Dr. Bratton, Dr. Shawaker, Dr. Taylor.

Surgery: Dr. Dodd, Dr. Means, Dr. Hamilton, Dr. Bigelow, Dr. Zartman, Dr. Reel.

Gynecology: Dr. Fletcher, Dr. Gallen, Dr. Stanton.

Eye: Dr. Schaeffer, Dr. Clark, Dr. Prout, Dr. Alcorn.

Eye, Ear, Nose, and Throat: Dr. Beatty, Dr. Hauer, Dr. Prout, Dr. Hodges, Dr. Williams, Dr. Tanner.

ECONOMICS AND SOCIOLOGY

Office, 5 Page Hall

PROFESSORS HAGERTY AND NORTH, ASSISTANT PROFESSORS
MARK AND LUMLEY, MR. CLARKE

ECONOMICS

120. The Household. Three credit hours. Second semester. Science Nursing, third year. Prerequisite or concurrent, Sociology 101-102 or Economics 101-102. Miss Mark.

The family as an economic institution. The evolution of household industries and its effect upon the home. Organization of the household with reference to the functions of man and woman.

177. Principles of Statistics. Three credit hours. First semester. Industrial Medicine. By special arrangement, this course may be taken concurrently with Sociology 101. Prerequisite, Economics 101-102 or Sociology 101-102. Miss Mark.

A study of the methods of statistical investigation. Collecting, arranging, and interpreting statistical data. Making sched-

ules; tabulation; averages and ratios; diagrams and curves; correlation; sampling.

SOCIOLOGY

101-102. Principles of Sociology. Three credit hours. The year. Industrial Medicine; Sociology 101, Public Health Nursing; Sociology 101, Science Nursing, third year. Mr. Hagerty, Mr. North, Miss Mark, Mr. Lumley, Mr. Clarke, and department assistants.

A study of the fundamental principles of sociology. Text-book, lectures, collateral reading and individual investigation. Sociology 101 is given also during the second semester.

112. Needy Families and Children. Four credit hours. Second semester. Science Nursing, fourth year. Mr. Hagerty.

A study of the institution and methods for the promotion of thrift and good citizenship. Tenement house and child labor legislation, industrial education, social settlements, welfare work, parks and playgrounds, substitutes for the saloon, amusements, sanitation, civic improvements, etc.

ENGINEERING DRAWING

Office, 204 Brown Hall

PROFESSOR FRENCH

127. Mechanical Drawing. One and one-half credit hours. First semester. Science Nursing, first year.

Elementary mechanical and architectural drawing.

128. House Planning. One and one-half credit hours. Second semester. Science Nursing, first year. Prerequisite, Engineering Drawing 127.

ENGLISH

Office, 103 Physics Building

PROFESSORS DENNEY, KETCHAM, AND BECK, AND
DEPARTMENT ASSISTANTS

101. Paragraph Writing: Description and Narration. Two credit hours. First semester. Science Nursing, first year. Mr. Beck and assistants.

104. Paragraph Writing: Exposition and Argumentation. Two credit hours. Second semester. Science Nursing, first year. Prerequisite, English 101. Mr. Beck and assistants.

PUBLIC SPEAKING

101. Public Speaking. Two credit hours. First semester. Industrial Medicine. Prerequisite, English 101, 104. Mr. Ketcham, Mr. Wiley.

The principles of public speaking. The methods of securing the attention, and maintaining the interest of an audience. Practice in the application of principles and methods to simple expository and argumentative addresses.

102. Debating. Two credit hours. Second semester. Science Nursing, third year. Prerequisite, English 101, 104. Mr. Ketcham.

Practice in making and presenting oral arguments. The theory and practice of argumentation and debate. Short class debates on subjects of current interest.

HOME ECONOMICS

Office, 120 Home Economics Building

PROFESSOR LANMAN, ASSISTANT PROFESSORS WALKER AND
SHELOW, AND DEPARTMENT ASSISTANTS

101-102. Foods. Five credit hours. The year. Two lectures, one quiz, and two laboratory periods each week. Science Nursing, second year. Prerequisite, Chemistry 106 or 110.

A study of the principles involved in the selection and preparation of foods; the occurrence, cost and value of the nutrients in the various food materials.

110. Dietetics. Four credit hours. Second semester. Two lectures and two laboratory periods each week. Science Nursing, fourth year. Prerequisites, Home Economics 101-102, Physiology 101-102, Agricultural Chemistry 123-124. Science Nursing, fourth year.

A study of the chemical, physiological and economic factors entering into the normal diet. Examination of dietary standards. Some attention to abnormal diet is given. Translation of stand-

ard dietaries into food materials and some exercises in making dietary studies and in preparing food for the sick.

119. Household Management. Four credit hours. Second semester. Three lectures each week. Science Nursing, fourth year.

A study of the organization and management of the household with a view to securing the maximum of family welfare. Time is given to a consideration of the problems of expenditures through study of relative values, examinations of budgets, and discussion of some of the factors influencing choice.

125. Survey of Home Economics. Three credit hours. Second semester. One lecture and two laboratory periods each week. Public Health Nursing.

Principles of the selection and preparation of normal low cost dietaries, marketing, feeding of infants and invalids, house sanitation, household management, economic and hygienic aspects of textiles and clothing.

MATERIA MEDICA

PROFESSOR DYE

131. Materia Medica. Two credit hours. First semester. Two lectures each week. Thirty-two didactic hours; total 32 hours. Medicine, first year. Dr. Dye.

A systematic and detailed study of the various drugs used in medicine.

132. Materia Medica. Three credit hours. Second semester. One lecture and four laboratory hours each week. Thirty-two didactic hours, 48 laboratory hours; total 80 hours. Medicine, first year. Dr. Dye and assistants.

A laboratory course in which instruction is given in the identification, dosage, characteristics and properties of vegetable and chemical drugs. The course also includes the fundamental principles in prescription writing.

MEDICINE AND CLINICAL MEDICINE

Office, 710 North Park Street

PROFESSORS——, UPHAM AND McCAMPBELL, ASSISTANT PROFESSORS BLAKEY, COONS, HORTON, C. J. SHEPARD, GORDON, AND HATFIELD, DR. RAMSEY, DR. LEIST, DR. BRATTON, DR. HINDMAN, DR. SHEETZ, DR. WAGENHALS, DR. EDELMAN

101-102. Medicine, General and Clinical. Five credit hours. The year. Four lectures and recitations, and two conference clinics each week throughout the year. Total 224 hours. Medicine, third year. Dr. McCampbell, Dr. Blakey, Dr. Coons, Dr. Gordon, Dr. Ramsey, Dr. Hatfield.

The field of medicine is covered as given in the standard textbooks. The conference clinics are given at St. Francis and Protestant Hospitals. Patients from the wards illustrating as far as possible the diseases discussed in the didactic lectures and quizzes, are exhibited and examined, and demonstrations are made of the application of the methods of physical diagnosis.

104. Physical Diagnosis. Two credit hours. Second semester. Total 48 hours. Medicine, second year. Dr. McCampbell.

Lectures, demonstrations and practical exercises showing the methods of physical examination and outlining of organs on normal subjects.

106. Nervous Diseases. Two credit hours. First semester. Two recitations each week. Total 32 hours. Medicine, third year. Dr. Wagenhals.

The methods of neurological examinations. The clinical procedures in locating lesions of the brain and spinal cord and ascertaining the nature of these lesions. The diagnosis also of nervous disorders which do not seemingly depend upon structural changes in the nervous system—functional disorders. Treatment of nervous diseases and psycho-neurosis. The medical clinics and hospital conferences will frequently bring opportunities to the student for making examinations and diagnoses in nervous disorders.

108. Dermatology. Two credit hours. Second semester. Total 32 hours. Medicine, third year. Dr. Shepard.

The various diseases of the skin, its constituent parts and appendages. The didactic instruction is supplemented by exhibition of cases showing the various skin lesions. These cases come from the hospitals and out-door dispensaries. Lantern slides are used where they exemplify the lesions under consideration to an advantage.

126. Genito-Urinary Diseases. Two credit hours. Second semester. Total 32 hours. Medicine, third year. Dr. Bratton, Dr. Baldwin.

Lectures and demonstrations on the pathology, diagnosis, and treatment of diseases of the genito-urinary organs. The didactic work is supplemented by practical demonstrations in the dispensary.

113-114. Medicine, General and Clinical. Two credit hours. The year. One hour lecture or quiz on special subjects in medicine and two conference clinics each week. Total 128 hours. Medicine, fourth year. Dr. Upham, Dr. Shepard, Dr. Bratton.

The conference clinics are held in the Protestant, St. Francis, and Children's Hospitals, and consist of the exhibition of illustrative cases of disease and demonstrations of the methods of physical and clinical diagnosis.

118. Psychiatry. One credit hour. Second semester. Three hours each week. Total 16 hours. Medicine, fourth year. Dr. Wagenhals.

Lectures, recitations, and clinics on the mental and physical characteristics of patients suffering from the best known types of mental diseases. Training in the differential diagnosis of the leading psychoses, and the psycho-neuroses. The mental mechanisms of various insanities, character defects, and feeble-mindedness. Mental hygiene as a department of preventive medicine.

121. Pediatrics, Didactic and Clinical. Two credit hours. First semester. Total 64 hours. Medicine, fourth year. Dr. Horton.

Lectures and recitations with clinical conferences each week. The physical characteristics of the child, the dietary requirements of infancy, the proper hygiene for normal development and the diseases peculiar to childhood.

122. Pediatrics, Clinical Conference. One credit hour. Second semester. Total 48 hours. Medicine, fourth year. Dr. Horton.

The conference clinics are conducted in the Protestant Hospital, and consist in the exhibition of patients and the practical demonstration of the various diseases of childhood and their treatment.

HOSPITAL

PROFESSOR UPHAM, ASSISTANT PROFESSORS HORTON, HAYHURST, SHEPARD, COONS, BLAKEY, GORDON, AND HATFIELD,
DR. RAMSEY, DR. LEIST, DR. HINDMAN,
DR. SHEETZ, DR. SHAWAKER

101-102. Hospital Ward Clinics in Medicine. Two credit hours. The year. Total 192 hours. Medicine, fourth year.

Four forenoons from 9 to 12 each week in the St. Francis, Protestant, and Children's Hospitals. Bedside instruction in medicine is given to the students, in small sections; the members of these sections are required to write case histories, make routine physical and clinical examinations of cases assigned to them. The histories written by the students are used as a means of instruction in the conference clinics.

The class is divided into six sections—one in medicine and one in surgery at each hospital. The sections are rotated every three weeks. Instructional work in the surgical specialties is given in the surgical sections and in the medical specialties in the medical sections.

OBSTETRICS

Office, 710 North Park Street

PROFESSOR ROGERS, DR. BREHM, DR. DUFFEE, DR. KRIGBAUM

102. Obstetrics. Two credit hours. Second semester. One lecture and two hours recitation and manikin exercise each week. Sixteen didactic hours, 32 laboratory hours; total 48 hours. Medicine, third year. Dr. Rogers.

Review of the anatomy and physiology of the female organs of reproduction, the development of the ovum, the physiology and diagnosis of pregnancy, the mechanism and management of normal labor, the deflexion presentations and breach presentations, the puerperium and the care of the new-born child.

105. **Obstetrics.** Two credit hours. First semester. One lecture and two hours demonstration and manikin review each week. Sixteen didactic hours, 32 laboratory hours; total 48 hours. Medicine, fourth year. Dr. Brehm.

Abnormal labor, induced labor, version, forceps, and operative obstetrics.

106. **Obstetrics.** Three credit hours. Second semester. One lecture and two hours demonstration and manikin review each week. Sixteen didactic hours, 32 laboratory hours; total 48 hours. Medicine, fourth year. Dr. Rogers, Dr. Brehm.

Six conductions required from each student—no required number of hours, though in no series of cases will the time be less than sixty hours.

The pathology of pregnancy, labor and the puerperium. In addition to the confinement cases required, the conduction of which will be in the maternity department of the Protestant Hospital, the Rescue Home, and at the homes of patients, each student will be required to apply the mother's breast binder and dressings and to properly bathe and clothe an infant, in the maternity department of the Protestant Hospital. He will also be required to make rounds with the staff in the maternity wards and nursery and to acquire a working knowledge of their routine.

OPHTHALMOLOGY AND OTO-LARYNGOLOGY

Office, 710 North Park Street

PROFESSORS BROWN AND TIMBERMAN, DR. SCHAEFFER,
DR. BEATTY, DR. PROUT, DR. HAUER, DR. ALCORN,
DR. HOFFHINE, DR. WILLIAMS, DR. HODGES

101. **Ophthalmology.** Two credit hours. First semester. Two lectures or demonstrations each week. Thirty-two didactic hours. Medicine, third year. Dr. Timberman.

The anatomy of the eye, physiology of vision, refraction and practice. Special emphasis is laid upon the external diseases of the eye, upon the diagnosis of internal disease and the relation of this organ to general disease. The course is supplemented by clinical work in the dispensary. The teaching service in the Senior year is entirely clinical. Section teaching is

carried out in the clinics, at the hospitals and dispensaries. Abundant exercise in practical refraction is given each section. Opportunity is afforded the class for a visit to the Ohio State School for the Blind, located in Columbus, to witness demonstrations of cases.

105. Oto-Laryngology. Two credit hours. First semester. Two lectures or quizzes each week. Thirty-two didactic hours. Medicine, third year. Dr. Brown.

The classroom work is supplemented by clinics at the Park Street and State Street Dispensaries. This field furnishes abundant operative material for hospital cases as well as ambulatory patients for dispensary treatment. The use of instruments, the technique of examination and treatment are practically taught. Anatomical preparations are used for accessory demonstrations and the students are required to report upon patients examined. The class is given demonstrations of ear diseases in the Ohio State School for the Deaf, located in Columbus.

PATHOLOGY

Office, 710 North Park Street

PROFESSORS SCOTT AND SPOHR, MR. VAN BUSKIRK, MISS CAMERON

109. Pathology. Seven credit hours. Second semester. Three lectures and thirteen laboratory hours each week. Total 256 hours. Medicine, second year. Prerequisite, Anatomy 133-134. Dr. Scott, Mr. Van Buskirk, Miss Cameron.

A review of normal cytology, the study of the retrogressive, inflammatory and regenerative lesions of the organs, tumors, and parasite infections.

103. Surgical Pathology. Two credit hours. Second semester. One lecture and two laboratory hours each week. Total 48 hours. Medicine, fourth year. Optional with Pathology 104. Dr. J. W. Means, Dr. Reel.

A laboratory course correlating the gross and microscopical pathology of operative specimens with the symptomatology.

107. Demonstrations of Necropsies. Medicine, second, third, and fourth years. Dr. Scott, Mr. Van Buskirk.

Each student is required to attend and write complete protocols of at least seven necropsies.

119. Clinical Pathology. Two credit hours. First semester. One lecture and three laboratory hours each week. Total 64 hours. Medicine, third year. Dr. Spohr.

The study of the blood, covering cell changes, ferment reactions, compliment fixation tests, phenomena of anaphylaxis, the preparation of the bacterial vaccines; the examination of urine, feces and stomach contents, sputum, spinal fluid, and the various exudates.

120. Clinical Pathology. One credit hour. Second semester. Three laboratory hours each week. Total 48 hours. Medicine, third year. Dr. Spohr.

A continuation of Pathology 119.

127-128. Advanced Pathology. Three to five credit hours. The year. Elective. Prerequisites, Pathology 109 and Bacteriology 141. Dr. Scott, Miss Cameron.

Autopsy technique, including a study of the tissues and cultures resulting from post-mortem examinations.

133-134. Advanced Special Pathology. Three to five credit hours. The year. Elective. Prerequisites, Pathology 109, Bacteriology 141. Dr. Scott, Miss Cameron.

A detailed study of the histological and experimental pathology of special organs and tissues.

137-138. Seminary. One credit hour. The year. Dr. Scott.

139-140. Experimental Pathology. Three to five credit hours. The year. Elective. Prerequisites, Pathology 109 and Bacteriology 141. Dr. Spohr.

Experimental infections and immunity as applied to medicine.

129-130. Neuropathology. One credit hour. The year. Elective. Prerequisite, Pathology 109. Dr. Scott.

The pathological and the experimentally produced lesions of the nervous system.

104. Medical Pathology. Two credit hours. Second semester. One lecture and two laboratory hours each week. Total 48 hours. Optional with Pathology 103. Prerequisite, Pathology 119-120. Medicine, fourth year. Dr. Scott, Dr. Spohr.

A laboratory course correlating the gross and microscopical pathology of specimens obtained at necropsies with the symptomatology.

143. Advanced Clinical Pathology. Three credit hours. Elective. Prerequisite, Pathology 119-120. Dr. Spohr.

Materials collected in the wards and out-patient department.

For graduate courses in this department see the **Bulletin of the Graduate School.**

PHYSICAL EDUCATION

Office, The Gymnasium

ASSISTANT PROFESSOR SCOFIELD, MISS RAYNOR-RANCK,
MISS GIBLING

100-100. Hygiene. One credit hour. Either semester. Required of all women students enrolled in the Science Nursing Course during the first year of attendance at the University.

This course deals with the various factors and conditions which affect the health and efficiency of the student.

131-132. Physical Education. One credit hour. The year. Two hours each week. Required of all women students enrolled in the Science Nursing Course during the first year of attendance at the University.

One hour floor work including marching tactics, free-hand exercises, light apparatus, folk dancing and games.

One hour out-door sports. Choice of the following:

Fall term—Hockey, tennis, archery, playground games.

Winter term—Basketball, hiking, games.

Spring term—Basketball, track, tennis, archery.

Natural interpretative dancing may be substituted for the required hour of sport or taken in addition.

133-134. Physical Education. One credit hour. The year. Three hours each week. For second year students; required of all women students enrolled in the Science Nursing Course.

Continuation of Physical Education 131-132 with a required hour of swimming until the test is passed, after which a choice of out-door sport or dancing is given.

PHYSIOLOGY, PHYSIOLOGICAL CHEMISTRY AND PHARMACOLOGY

Office, 104 Biological Building

PROFESSOR BLEILE, ASSISTANT PROFESSORS McPEEK, SEYMOUR, AND SMITH, MR. DURRANT

101-102. Physiology. Three credit hours. The year. Not open to Freshmen. Must be preceded by a course in Chemistry. Science Nursing, second year. Dr. Bleile, Dr. Seymour, Mr. Durrant.

A foundation course in the fundamental principles of animal physiology with applications to the human body, including demonstrations in circulation, digestion, respiration, gross and minute anatomy, reflex action, and other simple phenomena of living organisms.

121. Medical Physiology. Five credit hours. First semester. Three recitations or lectures and eight laboratory hours each week. Thirty-two didactic hours, 144 laboratory hours; total 176 hours. Medicine, second year.

The physiology of muscle and nerve, central nervous system, autonomic system, internal and external senses, blood and heart. An additional hour each week is devoted to reports or original papers by instructors and students.

122. Medical Physiology. Five credit hours. Second semester. Three recitations or lectures and six laboratory hours each week. Thirty-two didactic hours, 144 laboratory hours; total 176 hours. Medicine, second year. Prerequisite, Physiology 121.

The physiology of the circulatory and respiratory mechanisms, digestion, excretory structures, endocrinous glands, metabolism and reproductive organs. One hour each week additional is devoted to the reports of papers by instructors and students.

123. Bio-Chemistry. Four credit hours. First semester. Two lectures and six laboratory hours each week. Thirty-two

didactic hours, 96 laboratory hours; total 128 hours. Medicine, first year. Prerequisite, an acceptable course in organic chemistry.

A study of carbohydrates, fats, and proteins in their relation to the cell including a study of digestion, metabolism, animal fluids, enzymes, secretions, and excretions in their normal condition with frequent references to pathologic variations.

130. Pharmacology. Four credit hours. Second semester. Two lectures and six laboratory hours each week. Thirty-two didactic hours, 96 laboratory hours; total 128 hours. Medicine, second year. Prerequisite, Physiology 123, except on permission of the instructor. Dr. McPeck and assistants.

A general review of vegetable and chemical substances together with a study of the physiological action of drugs in groups, with experiments on absorption, elimination, fate of drugs in the body, their relation to emesis, catharsis, peristalsis, and diuresis.

139. Evaluation of Diets. Two credit hours. First semester. Two lectures or quizzes each week. Open to students in the College of Medicine and in Industrial Medicine. Prerequisites, Physiology 121, 122, and 123.

This course is designed to familiarize the student with food values, diet requirements, etc., as applied to special groups in industry in general medical practice.

For graduate courses in this department see the Bulletin of the Graduate School.

PSYCHOLOGY

Office, 403 University Hall

PROFESSORS ARPS, PINTNER, AND WEISS, ASSISTANT PROFESSOR BRIDGES, AND DEPARTMENT ASSISTANTS

101-102. Elementary Psychology. Introductory course. Three credit hours. The year. Science Nursing, first year. All instructors.

127. Industrial Psychology. Two credit hours. Second semester. Lectures, recitations, reports. Industrial Medicine. Prerequisite, Psychology 101-102 or 103-104. Mr. Bridges.

The application of psychology to the following problems: vocational guidance, selection of industrial workers, industrial learning and training, the adaptation of technical to mental conditions, industrial monotony, fatigue, rest, and the length of the working day.

157. **Abnormal Psychology.** One credit hour. First semester. One hour each week. Total 16 hours. Medicine, fourth year. Dr. Bridges.

Lectures, recitations, and reports on the psychology of the functional neuroses; especially hysteria, psychasthenia, neurasthenia, and the constitutional psychopathic states. Considerable attention will be given to the various interpretations of these phenomena, such as the theories of Janet, Prince, and Freud.

PUBLIC HEALTH AND SANITATION

Office, 710 North Park Street

PROFESSORS HAYHURST AND McCAMPBELL, ASSISTANT
PROFESSOR SELBERT

110. **Preventive Medicine.** Two credit hours. Second semester. Two lectures or recitations each week. Total 32 hours. Public Health Nursing. Dr. McCampbell.

The important facts and fundamental principles in preventive medicine are given consideration. The sociological aspects and the methods used in public health work are emphasized. Special attention will be given to the methods and procedures for preventing the occurrence of the communicable diseases as well as the control of this group of diseases. The non-infectious diseases will also be discussed from the standpoint of preventive medicine and the public health.

105-106. **Principles of Public Health Nursing.** Two credit hours. The year. Two lectures or recitations each week. Total 64 hours. Mrs. Selbert.

This course takes up the historical development of nursing, the organization of the professional field, and the place of nursing in its relation to the various forms of medico-social and public service. It discusses the best methods of administration as to the supervision and arrangement of practical work, classification and preservation of records and the presentation and

publication of reports. This course is intended also to give a general grasp of measures to be followed outside of hospital nursing in various types of sickness, to relieve immediate needs and to teach hygiene and methods to prevent the spread of disease. Special branches of Public Health work will be considered and the practical handling of individual problems will be discussed. Observation will be provided in agencies especially fitted to meet these problems.

115. Preventive Medicine. Two credit hours. First semester. Two recitations and demonstrations each week. Total 32 hours. Medicine, fourth year. Dr. McCampbell.

The channels of infection, public health law and quarantine procedure; immunity, heredity, and eugenics as applied to preventive medicine; protection of the food supply; public water supplies and sanitary analysis of water; sewage and refuse disposal; industrial hygiene and occupational diseases and disinfection.

121. Public Health Problems. Two credit hours. Either semester. Two lectures or recitations each week. Total 32 hours. Given only on the campus. Dr. Hayhurst.

This course includes an elementary consideration of the various public health problems which present themselves. Consideration is given the question of the prevention of unnecessary infant mortality, the physical supervision of school children, the provision and the protection of the public water and food supplies, the proper elimination of waste, the sociological aspects of public health work, including especially the question of the elimination of tuberculosis. Limited instruction is given on the matter of quarantine regulations, disinfection, and in the control of communicable diseases.

107-108. Public Health Nursing Field Work. Seven credit hours. The year. One conference and twenty hours of field work each week. Total 672 hours. For prerequisites, see "Requirements for Admission," page 29.

A study is made of the work of various nursing and medico-social service organizations. Hospital and dispensary social service work. The time and assignments for each student will be arranged individually by the instructor. The field work will be

intimately correlated with the dispensaries and hospitals under the control of the University.

118. Seminary in Public Health Nursing. Two credit hours. Second semester. Public Health Nursing. Dr. McCampbell, Dr. Hayhurst, Mrs. Selbert.

Reports and conferences. Supervised declamations and presentations in both class and public meetings.

112. Personal Hygiene. Three credit hours. Second semester. Three lectures or recitations each week. Forty-eight didactic hours. Elective. Medicine, first year. Dr. Hayhurst.

Component systems of the human body are considered from the point of view of their functions, toleration, and adaptation limits, habit effects, normal and abnormal states, with signs and indications thereof, common diseases with their prophylaxes, and the principles of emergency treatments.

113. Personal Hygiene. Two credit hours. First semester. Two lectures or recitations each week. Total 32 hours. Given only on the campus. Dr. Hayhurst.

Component systems of the human body are considered from the point of view of their functions, toleration and adaptation limits, habit effects, normal and abnormal states with signs and indications thereof, common diseases with their prophylaxis and the principles of emergency treatments.

This course aims, in a non-technical manner, to point out the principles for maintaining personal health and efficiency.

122. Industrial Hygiene. Two credit hours. Second semester. Two lectures or recitations each week. Elective. Given only on the campus. Dr. Hayhurst.

This course is designed strictly for undergraduates who are preparing themselves for general work in connection with manufacturing plants and various industries. The course consists of didactic work, lectures and demonstrations dealing with the various health hazards which operate in connection with the various industries. The question of ventilation, temperature, humidity, illumination, fatigue, and inactivity will be considered. Some consideration will be given the question of industrial poisons and occupational diseases, as well as the prevention of accidents. The preventive medical phases of industrial hygiene

will also be given careful consideration, including a discussion of the physical examination of employees and the general medical and social supervision of manufacturing plants.

GRADUATE WORK

201. Personal Hygiene. Three credit hours. First semester. Three lectures or recitations each week. Total 48 hours. Dr. Hayhurst.

The applied anatomy and physiology of the human being with particular attention to questions of toleration, adaptation, results of faulty habits, tests of normality and abnormality, common afflictions and their avoidance, impairments and functional re-education, general prophylaxis, first aid and emergency treatments, mental hygiene.

202. Industrial Hygiene. Three to five credit hours. Second semester. Dr. Hayhurst.

The industries, trades, and callings of chief hygienic import; the industrial health hazards technically considered; the occupational diseases; the general means of hygienic control and prevention. Includes laboratory, demonstrations, and inspection trips.

204. Preventive Medicine. Two credit hours. Second semester. Dr. McCampbell.

The important facts and principles in preventive medicine and the sociological aspects and methods of public health.

Special problems, venereal prophylaxis, ocular hygiene, oral prophylaxis, diseases of the ear and nose.

205. Public Health Administration and the Public Health Problems. Two credit hours. First semester. Dr. McCampbell, Dr. Hayhurst.

Efficiency of public health measures, organization of national, state, and local health departments, sanitary law and legal powers, and responsibilities of health officers. Current problems in hygiene and sanitation.

207. Demography. Two credit hours. First semester. Two lectures or recitations each week. Total 32 hours. Prerequisite or concurrent, Economics 177.

Vital, social, and sanitary statistics.

208. Social Service and Public Health Nursing. Two credit hours. Second semester. Two lectures or recitations each week. Total 32 hours. Mrs. Selbert.

Preventable diseases discussed from their social aspects. Relation between social science and preventive medicine. Existing agencies and principles involved in dealing with medico-sociological problems.

History of nursing, organization and principles underlying public health nursing with particular reference to Ohio.

209-210. Communicable Diseases. Three credit hours. The year. Dr. McCampbell.

Clinical study and administrative control of the more common communicable diseases. Visits to the hospitals and laboratories.

211-212. Public Health Engineering. Three credit hours. The year. Mr. Van Buskirk.

Principles of sanitary engineering and municipal sanitation. Public water supplies and water purification, pollution of streams, methods of sewage and garbage disposal, street cleaning, hygienic housing, plumbing, ventilation, and the effect of unsanitary conditions on the public health. Inspection trips.

213-214. Public Health Laboratory and Inspection Methods. Three credit hours. The year. Mr. Van Buskirk.

Methods and examinations employed in diagnosis of communicable diseases, water, food, and drug analyses and inspection of meat, milk, and food products.

216. Seminary and Thesis. One credit hour. Second semester. Dr. McCampbell, Dr. Hayhurst.

Public sanitation problems.

SCIENCE NURSING

101-102. Elementary Nursing. Two credit hours. The year. One lecture and three laboratory or demonstration hours each Saturday morning. Total 128 hours. Science Nursing, first year.

A study of the development of nursing, its status in ancient times, and the ideals of modern nursing. Instruction in the fundamental principles on which nursing depends. The demon-

stration and practice of those nursing duties which may be performed in the earlier stages of training.

103. Drugs and Solutions. One credit hour. Summer period following first year of the Science Nursing Curriculum. One lecture each week. Total 12 hours. Prerequisite, first year of the Science Nursing Curriculum.

Elementary discussion of drugs, their sources, crude forms, and preparation; practical problems in weights and measures; and the preparation of solutions.

104. Hospital Ward Duty. Eight credit hours. Summer period following first year of the Science Nursing Curriculum. Eight hours of hospital ward duty each day for six days each week. Total 384 hours. Prerequisite, first year of the Science Nursing Curriculum or its equivalent.

The student will serve as a probationer in the wards of the Protestant Hospital.

111. Elements of Pathology. Two credit hours. First semester. Two lectures each week. Total 32 hours. Science Nursing, third year. Prerequisite, first two years of the Science Nursing Curriculum and preliminary nursing period.

A lecture course covering the elementary principles; retrogressive, inflammatory and regenerative reactions of the tissues and the effects of special infectious agents upon the body; tumors.

113. Medical Nursing. Two credit hours. First semester. Two lectures each week. Total 32 hours. Science Nursing, third year. Prerequisite, first two years of the Science Nursing Curriculum and preliminary nursing period.

Hygiene of the sick room; diseases of the blood, of organs of circulation and lymphatics, of organs of respiration, of digestion and of excretion.

115. Surgical Nursing. One credit hour. First semester. One lecture each week. Total 16 hours. Science Nursing, third year. Prerequisite, first two years of the Science Nursing Curriculum and preliminary nursing period.

Principles of septic and anti-septic surgery; fractures; surgical emergencies; pre-operative considerations; post-operative

considerations; surgical tuberculosis; tumors; surgical conditions of the head, neck, chest, stomach, gall bladder, intestines, kidney and bladder, and fistulae and plastic surgery.

117. Materia Medica. One credit hour. First semester. One lecture each week. Total 16 hours. Science Nursing, third year. Prerequisite, first two years and preliminary nursing period of the Science Nursing Curriculum.

Drugs, systems of measurement, the care and use of equipment, administration, solutions; important drugs; the medicine closet.

119. Hospital Ward Duty. Eight credit hours. Summer period following the second year of the Science Nursing Curriculum. Eight hours each day, six days each week for eight weeks. Total 384 hours. Prerequisite, first two years of the Science Nursing Curriculum and Science Nursing 104.

The student performs the duties of a nurse in training in the wards of the Protestant Hospital.

122. Proseminary in Case Studies. Two credit hours. Second semester. Two conferences each week. Total 32 hours. Science Nursing, third year. Prerequisite, first two years and preliminary nursing period of the Science Nursing Curriculum.

Assignment to each student of at least six cases embracing medical, surgical, obstetrical, and pediatrical nursing for complete study and the submission of written reports as the basis for class discussion.

123. Hospital Ward Duty. Eight credit hours. First semester. Eight hours each day; six days each week for eight weeks. Total 384 hours. Prerequisite, first two years of the Science Nursing Curriculum and Science Nursing 119.

The student performs the duties of a nurse in the wards of the Protestant Hospital.

125. Gynecological Nursing. One credit hour. First semester. One lecture each week. Total 16 hours. Science Nursing, fourth year. Prerequisite, first three years of the Science Nursing Curriculum.

Definition and brief history of gynecology; diseases of the reproductive organs and genito-urinary tract; examinations and gynecological operations.

127. Orthopedic Nursing. One credit hour. First semester. One lecture each week. Total 16 hours. Science Nursing, fourth year. Prerequisite, first three years of the Science Nursing Curriculum.

Definition; deformities, apparatus used in orthopedic work; care of patients in plaster casts and braces; orthopedic operations.

129. Obstetrical Nursing. Two credit hours. First semester. One lecture and one demonstration each week. Total 32 hours. Science Nursing, fourth year. Prerequisite, first three years of the Science Nursing Curriculum.

Mechanism and management of normal labor; after-care of the mother; care and artificial feeding of the new-born infant; physiology and hygiene of pregnancy; pathological pregnancy.

131. Nursing in Diseases of Infants and Children. Two credit hours. First semester. Two lectures each week. Total 32 hours. Science Nursing, fourth year. Prerequisite, first three years of the Science Nursing Curriculum.

The normal child; nursing of sick children; diseases of digestive, respiratory, circulatory, nervous and genito-urinary systems; diseases of the blood and lymphatic glands; surgical conditions in children; social aspects of children's diseases.

133. Nursing in Communicable Diseases. Two credit hours. First semester. Two lectures each week. Total 32 hours. Science Nursing, fourth year. Prerequisite, first three years of the Science Nursing Curriculum.

Specific infectious diseases; the conduct of a case of communicable disease; diphtheria, cerebrospinal meningitis, acute poliomyelitis, lobar pneumonia, influenza, common colds, follicular tonsillitis, tuberculosis, scarlet fever, measles, chicken pox, whooping cough, mumps, gonococco-vaginitis, syphilis, gonorrhea, erysipelas, smallpox and typhoid fever.

135. Nursing in Diseases of the Eye, Ear, Nose, and Throat. One credit hour. First semester. One lecture each week. Total 16 hours. Science Nursing, fourth year. Prerequisite, first three years of the Science Nursing Curriculum.

Anatomy and physiology of the head with special reference to the eye, ear, nose, and throat; special diseases; methods of

examination; methods of treatment; operations, solutions, strength and uses.

137. Operating Room Technic. One credit hour. First semester. One lecture or demonstration each week. Total 16 hours. Science Nursing, fourth year. Prerequisite, first three years of the Science Nursing Curriculum.

The operating room; instruments and supplies; preparation for operation; local preparation of patient for operation; and preparation and duties of the nurse.

139. Hospital Ward Duty. Six credit hours. First semester. Four ward duty hours each day; twenty-four each week. Total 384 hours. Science Nursing, fourth year. Prerequisite, first three years of the Science Nursing Curriculum.

The student will perform the duties of a nurse in training in the wards of the Protestant Hospital.

141. Hospital Ward Duty. Eight credit hours. Summer period following third year of the Science Nursing Curriculum. Eight hours each day; six days each week for eight weeks. Total 384 hours. Prerequisite, first three years of the Science Nursing Curriculum.

The student will perform the duties of a nurse in training in the wards of the Protestant Hospital.

SURGERY

Office, 710 North Park Street

PROFESSOR WARDLOW, ASSISTANT PROFESSORS DODD, HARRIS, BIGELOW, HAMILTON, FLETCHER, AND STEINFELD, DR.

ZARTMAN, DR. BALDWIN, DR. J. W. MEANS, DR. H. J.

MEANS, DR. LUDWIG, DR. REEL, DR. STIFFEY

104. Minor Surgery. Two credit hours. First semester. Two lectures each week. Total 32 hours. Medicine, second year. Dr. Reel.

Fundamental instruction in the theory and practice of asepsis and antisepsis; the preparation of ligatures, sutures and materials for surgical dressings; surgical instruments and their use; hemorrhage; shock protocyllis; hypodermoclysis; trans-

fusion and infusion; aspirations; tapping; splints; bandaging and anesthetics.

101-102. General Surgery. Five credit hours. The year. Four hours recitation and quiz, three hours conference clinics. One hundred and twenty-eight class hours, 96 clinic hours; total 224 hours. Medicine, third year. Prerequisite, Anatomy 127, three hours. Dr. Hamilton, Dr. Bigelow, Dr. J. W. Means, Dr. Zartman.

Lectures: A systematic course dealing with the principles of surgery. The causes, effects, and methods of diagnosis and treatment of surgical conditions are discussed.

Conference clinics: Patients from the wards and dispensaries are examined and studied before the class. The methods of teaching are designed to demonstrate the clinical value of the fundamental branches of medical science acquired by the student in the preceding years; to develop his powers of observation and to familiarize him with the principles underlying treatment.

106. Gynecology. Two credit hours. Second semester. Two lectures or recitations each week. Total 32 hours. Medicine, third year. Dr. Fletcher.

A systematic course on the subject of gynecology. Instruments, charts, and pathological specimens are also studied.

116. Orthopedic Surgery. One credit hour. First semester. One lecture each week. Total 16 hours. Medicine, fourth year. Dr. Steinfeld.

A systematic course dealing with the causes and diagnosis of the various deforming diseases, and the principles of their prevention and correction.

Selected cases are presented when possible to illustrate the didactic course.

127-128. Conference Clinics. One credit hour. The year. Two periods each week. Total 96 hours. Medicine, fourth year. Dr. Wardlow, Dr. Dodd, Dr. Harris, Dr. Fletcher, Dr. Steinfeld, Dr. Baldwin, Dr. Bratton.

Patients from the hospital wards and out-patient department are brought before the class for demonstration and discussion.

Emphasis is laid upon the application of clinical and laboratory methods of investigation.

The conferences are held in the St. Francis, Protestant and Children's Hospitals, thus permitting a selection of the more instructive cases for consideration by the entire class.

111. Operative Surgery. One credit hour. First semester. Forty-eight laboratory hours. Medicine, fourth year. Open to groups of six students. Dr. Hamilton.

The student is required to familiarize himself with the objects and technique of the ordinary and important surgical operations by performing them upon the cadaver and upon animals.

119. Roentgenology. One or two credit hours. Either semester. Elective. Dr. H. J. Means.

Practical demonstrations of plates are made in connection with the conference medical and surgical clinics and section ward-classes. Methods of X-Ray diagnosis are shown, findings interpreted, and comparisons drawn with clinical findings.

117-118. Industrial Surgery. Two to five credit hours. The year. Two lectures or conferences each week. Elective in College of Medicine. Prerequisite, Surgery 101-102 and all of the required courses in the Senior year in Medicine, which courses may be taken concurrently. Dr. Dodd, Dr. Bigelow, Dr. Steinfeld, Dr. Means.

A course of lectures and conference-quizzes and clinics dealing with the principles of surgery as applied to industry with stress on the value of intelligent first-aid work, rehabilitation, functional re-education and occupational therapy, all calculated to recuperate the injured employee in the quickest time possible and to provide in an intelligent manner for return to certain forms of work which are judged to be beneficial to him during his period of convalescence or disability. The relation of industrial surgical cases to compensation matters, malingering and prevention of complications are also included. Extra credit may be allowed, after conference, to certain students in Industrial Medicine for practical work and experience in industrial plants.

HOSPITAL

SURGERY: DR. WARDLOW, DR. DODD, DR. HARRIS, DR. FLETCHER,
DR. STEINFELD, DR. BIGELOW, DR. HAMILTON, DR. SHEPARD,
DR. MEANS, DR. ZARTMAN, DR. LUDWIG. **SURGICAL**
SPECIALTIES: DR. BROWN, DR. TIMBERMAN,
DR. PROUT, DR. BEATTY, DR. CLARK,
DR. HAUER, DR. SCHAEFFER

101-102. Hospital Ward Clinics in Surgery and Specialties.
Two credit hours. The year. Total 192 hours. Medicine, fourth year.

The class is divided into sections. Four forenoons each week from 9 to 12 in St. Francis, Protestant, and Children's Hospitals.

All surgical patients admitted to the wards are assigned to the students in rotation. The individual student assigned to a given case is required to record the history, make a complete physical examination, and carry out all routine laboratory tests and such special examinations and tests as are indicated. He is required to be present and act as assistant or anesthetist in operations upon patients under his charge.

Under instructional supervision he is further required to follow the progress of his patient, doing the necessary dressings and keeping written record of the results of bedside observation.

He is further required to present and demonstrate his patient at section conference.

The class is divided into six sections—one in medicine and one in surgery at each hospital. The sections are rotated every three weeks. Instructional work in the surgical specialties is given in the surgical sections and in the medical specialties in the medical sections.

MEDICAL LAW

101. Medical Law. One credit hour. Second semester. Sixteen didactic hours. Medicine, fourth year.

The civil and criminal aspects of legal medicine.

The following topics are covered in the course: the relation of the physician to the state, the medical practice acts, duties, and legal rights of physicians, the relation of physicians and their patients, including a discussion in restraint of patients,

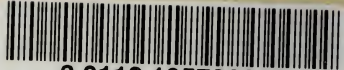
the right of examination or operation, contracts, malpractice, etc.; medical testimony in the court; expert witnesses; wills and nuncupations; insanity laws; legal responsibility for crime; personal injuries; coroners' courts; murder; suicide; rape; pregnancy; abortion; prostitution; marriage; divorce; etc.

SPECIAL LECTURES

Special Lectures. One credit hour. Second semester. Sixteen didactic hours. Medicine, fourth year.

A series of special lectures is given on the subjects of life insurance examinations, medical ethics, and medical economics.

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